

4.2.A. 0513020101.

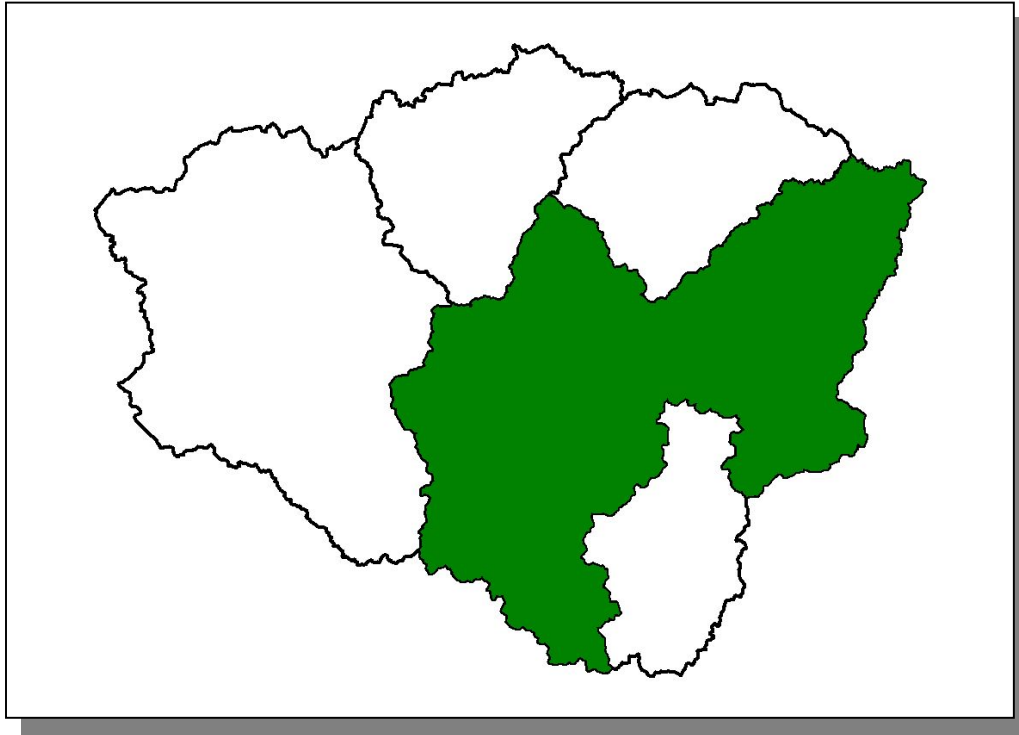


Figure 4-2. Location of Subwatershed 0513020101. All Old Hickory Lake HUC-10 subwatershed boundaries are shown for reference.

4.2.A.i. 051302010101 (Cumberland River).

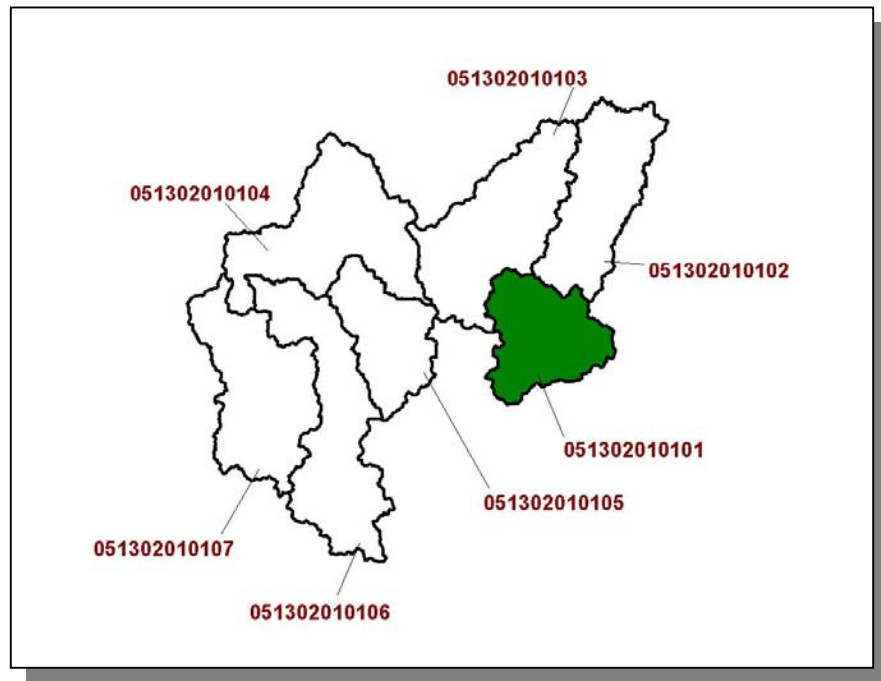


Figure 4-3. Location of Subwatershed 051302010101. All HUC-12 subwatershed boundaries are shown for reference.

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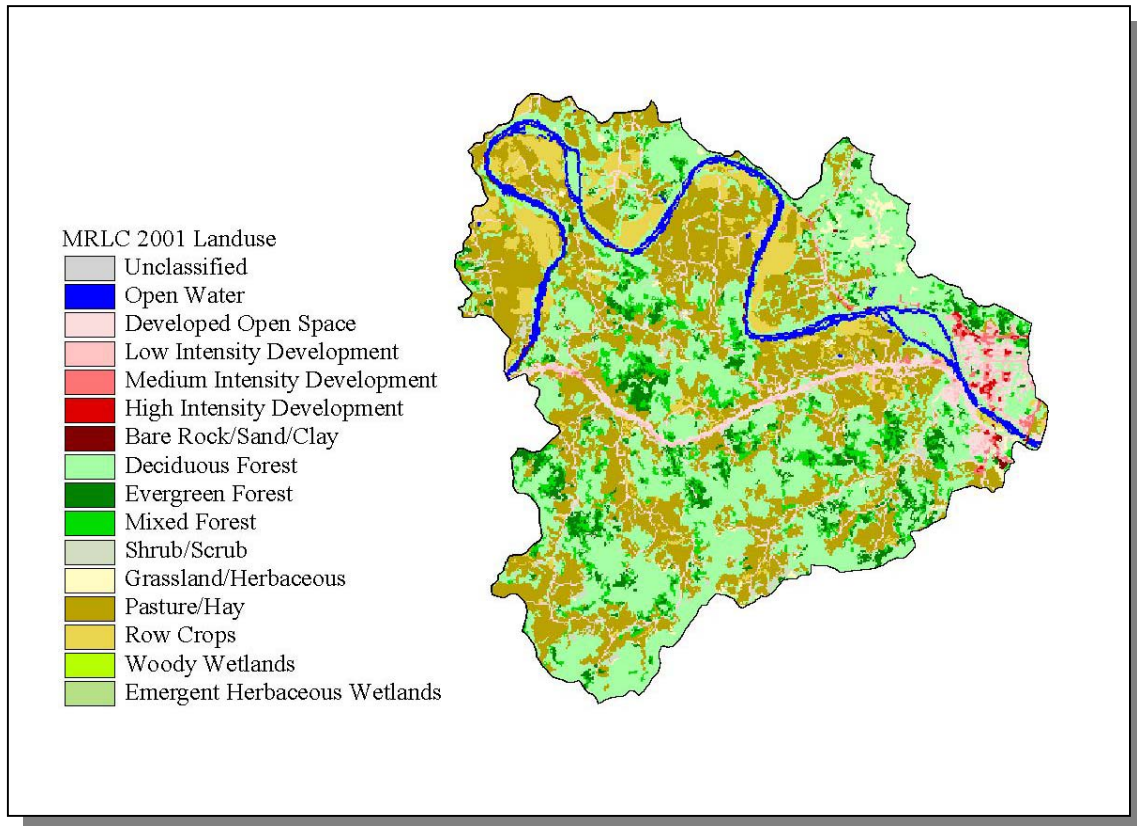


Figure 4-4. Illustration of Land Use Distribution in Subwatershed 051302010101.

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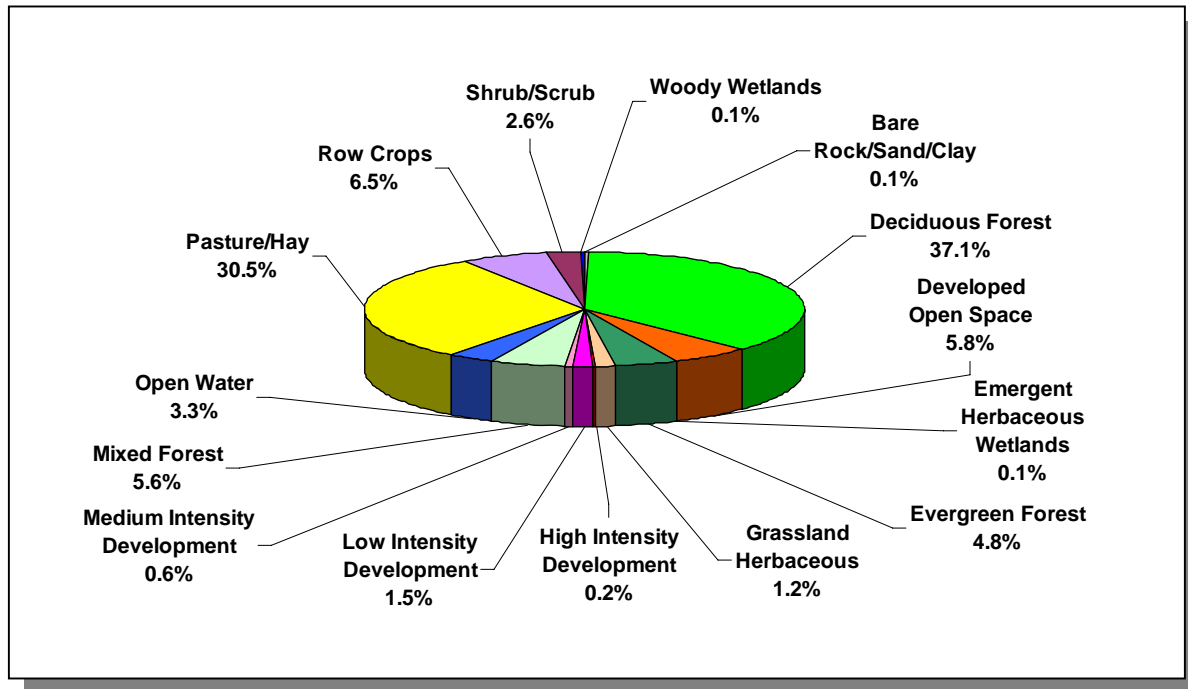


Figure 4-5. Land Use Distribution in Subwatershed 051302010101. More information is provided in Appendix IV.

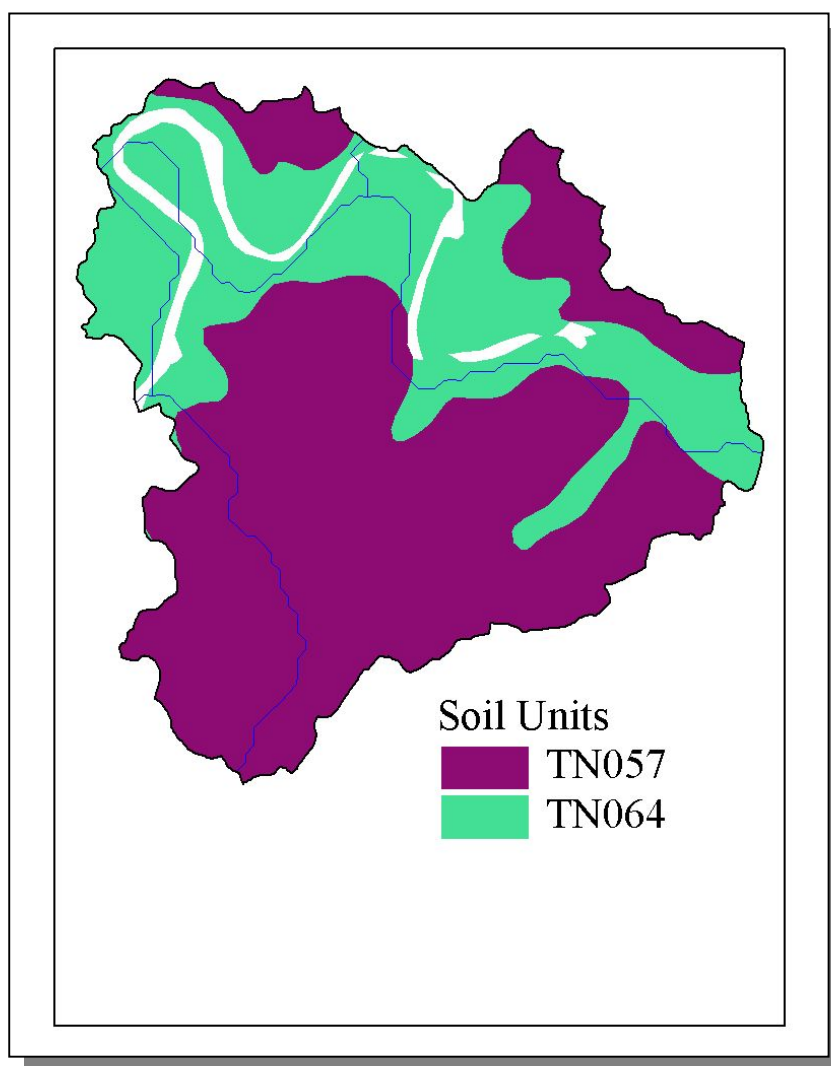


Figure 4-6. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302010101.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN057	0.00	C	1.14	5.01	Clayey Loam	0.33
TN064	7.00	C	1.19	5.82	Silty Loam	0.37

Table 4-2. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302010101. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Smith	14,143	16,047	17,712	13.13	1,857	2,107	2,325	25.2

Table 4-3. Population Estimates in Subwatershed 051302010101.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Carthage	Smith	2,368	1,080	1,054	23	3
South Carthage	Smith	851	376	295	81	0
Total		3,219	1,456	1,349	104	3

Table 4-4. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 051302010101.

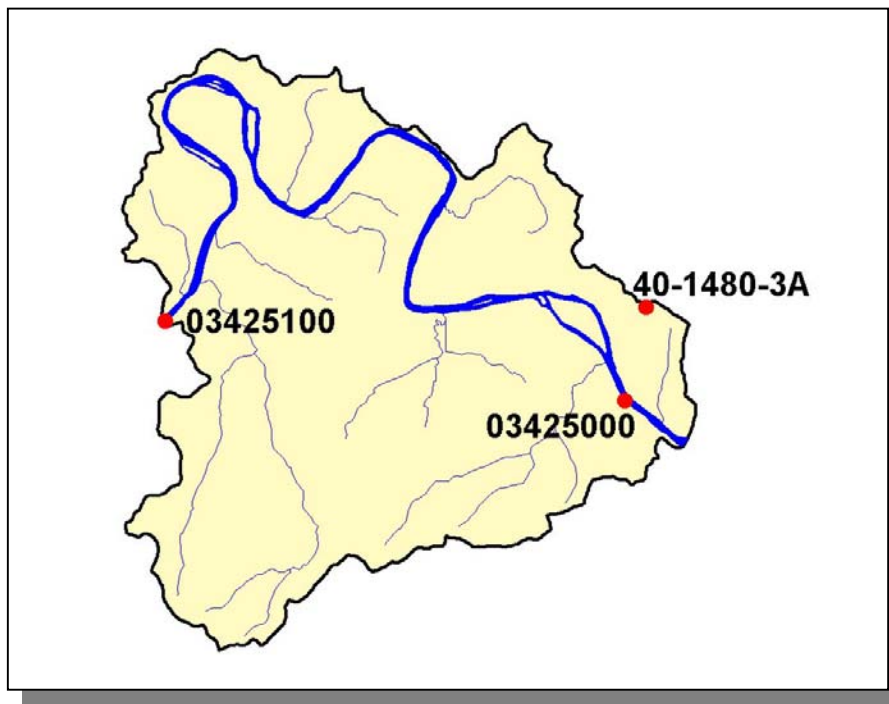


Figure 4-7. Location of Historical Streamflow Data Collection Sites in Subwatershed 051302010101. More information is provided in Appendix IV.

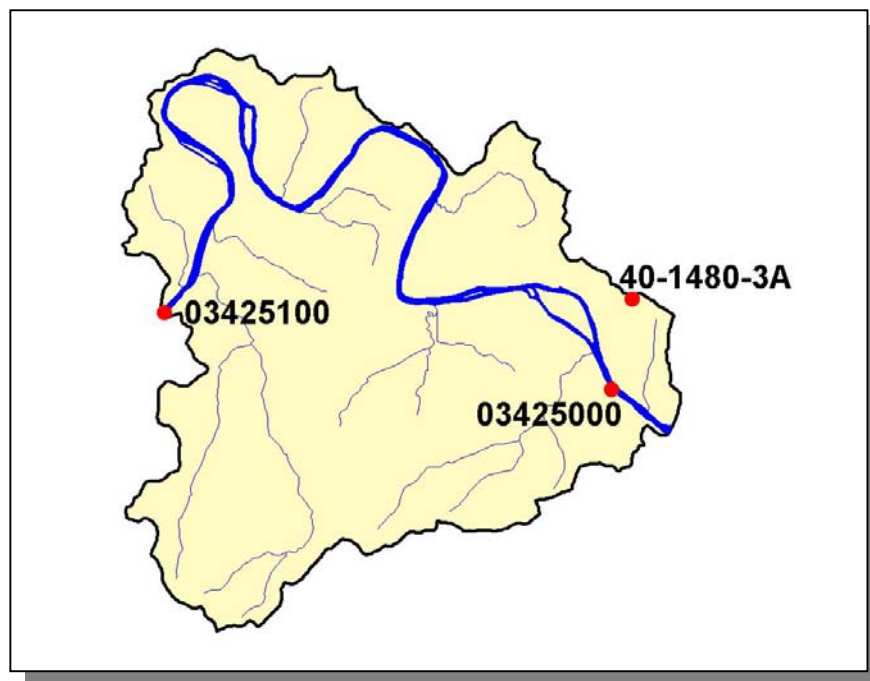


Figure 4-8. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302010101. More information, including site names and locations, is provided in Appendix IV.

4.2.A.i.a. Point Source Contributions.

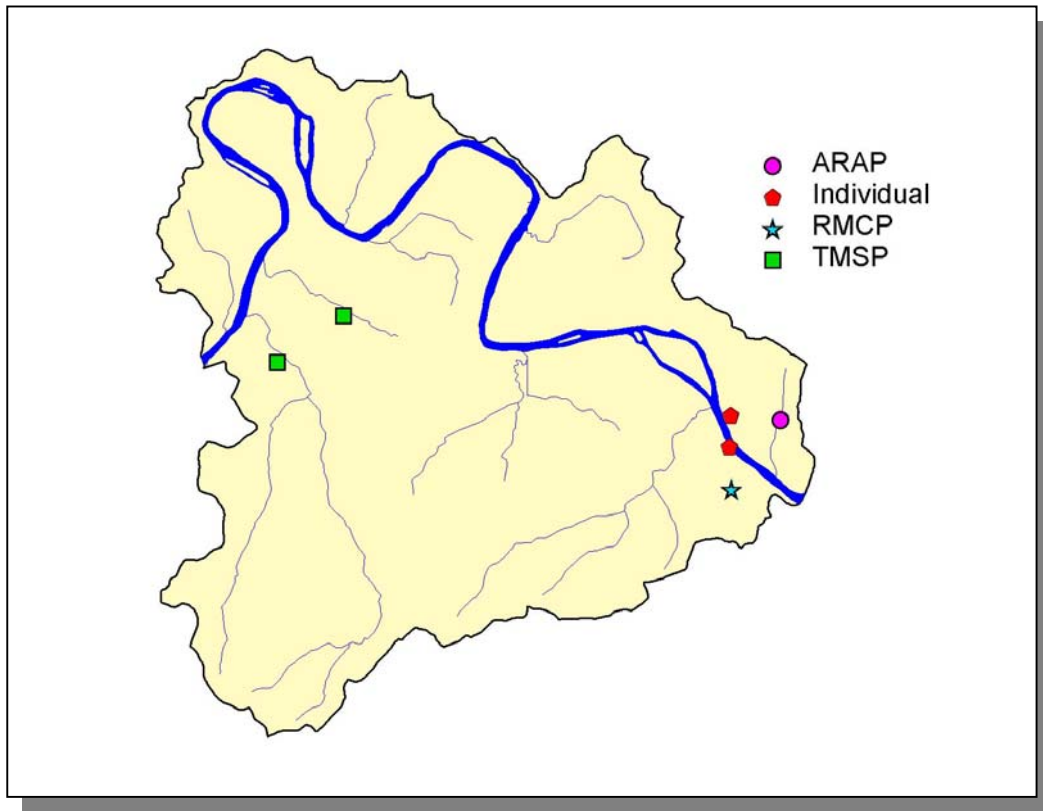


Figure 4-9. Location of Permits Issued in Subwatershed 051302010101. More information, including the names of facilities, is provided in Appendix IV.

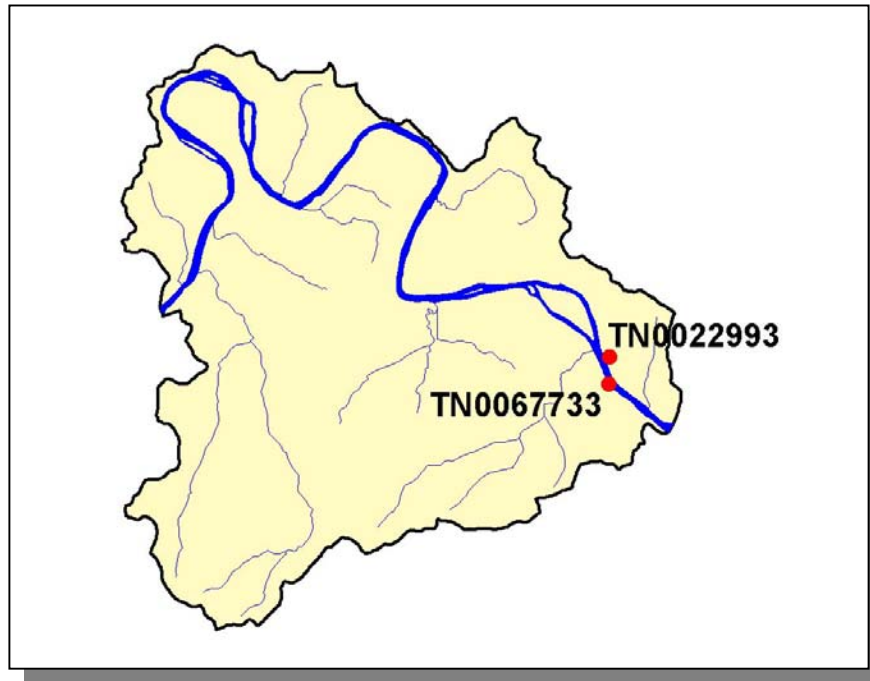


Figure 4-10. Location of Active NPDES Sites in Subwatershed 0513020101. More information, including the names of facilities, is provided in Appendix IV.

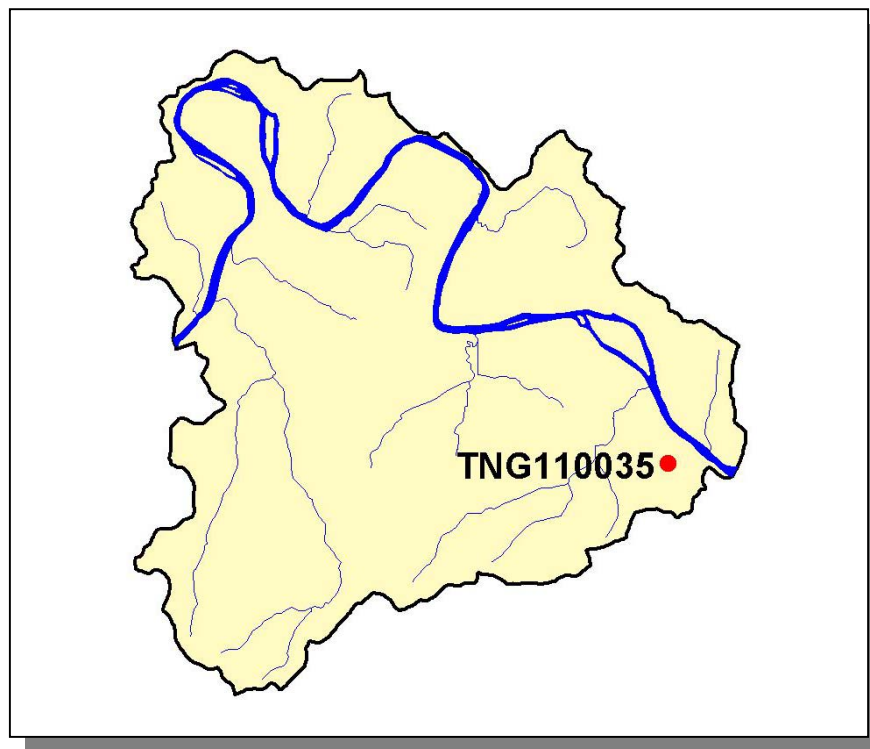


Figure 4-11. Location of Ready Mix Concrete Plants (RMCP) in Subwatershed 0513020101. More information is provided in Appendix IV.

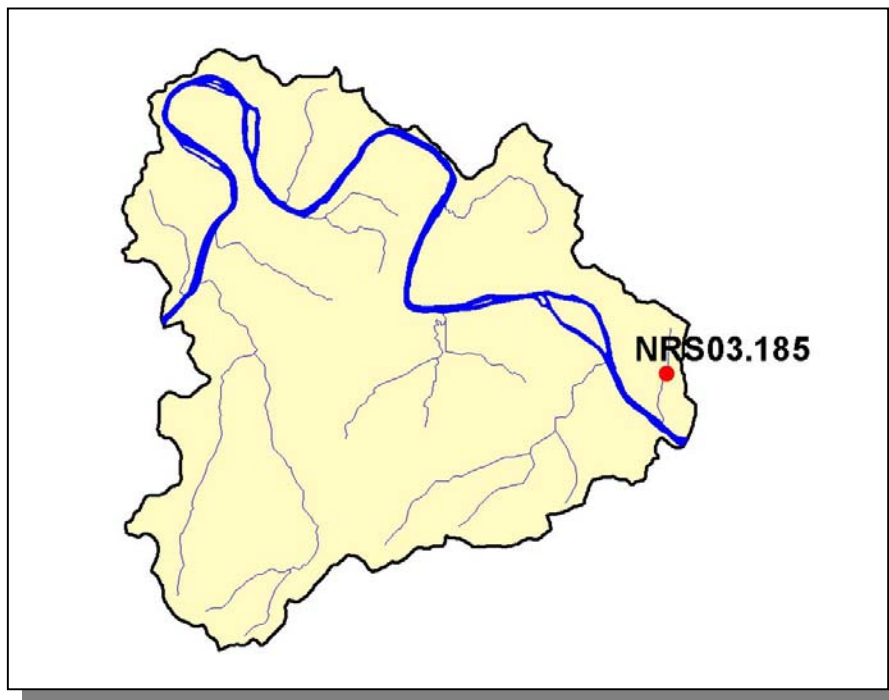


Figure 4-12. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 051302010101. More information is provided in Appendix IV.

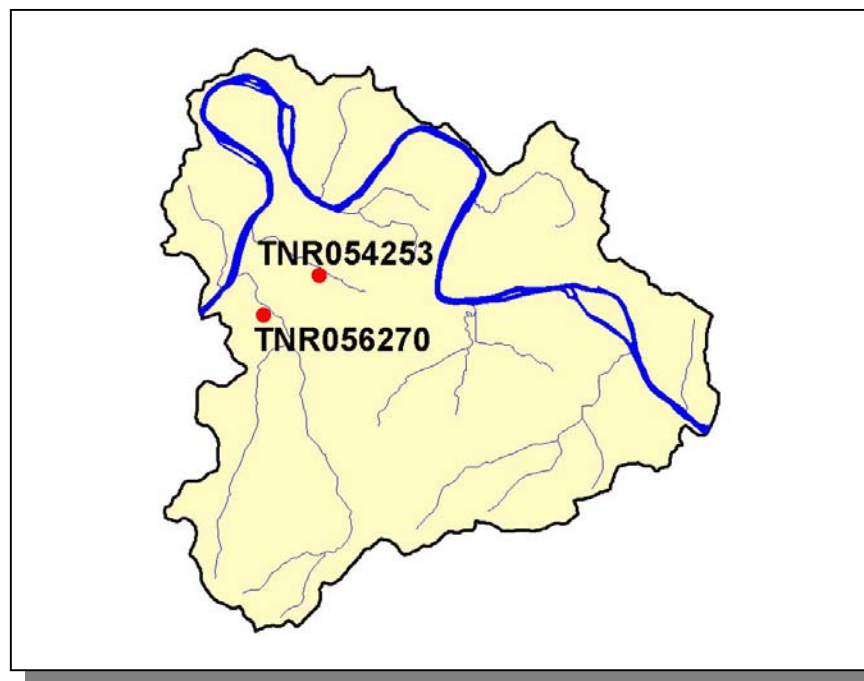


Figure 4-13. Location of TMSP Sites in Subwatershed 051302010101. More information, including the names of facilities, is provided in Appendix IV.

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4.2.A.i.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
2,433	4,201	115	5	267	47

Table 4-5. Summary of Livestock Count Estimates in Subwatershed 051302010101. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Smith	17,187	29,672	814	683	1,883	332

Table 4-6. Summary of Livestock Count Estimates in Smith County. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Smith	81.0	81.0	1.1	2.6

Table 4-7. Forest Acreage and Annual Removal Rates (1987-1994) in Smith County.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	1.47
Grass (Hayland)	0.12
Legumes, Grass (Hayland)	0.11
Grass, Forbs, Legumes (Mixed Pasture)	0.66
Soybeans (Row Crops)	6.36
Tobacco (Row Crops)	6.96
Farmsteads and Ranch Headquarters	0.45

Table 4-8. Annual Estimated Total Soil Loss in Subwatershed 051302010101.

4.2.A.ii. 051302010102 (Peyton Creek).

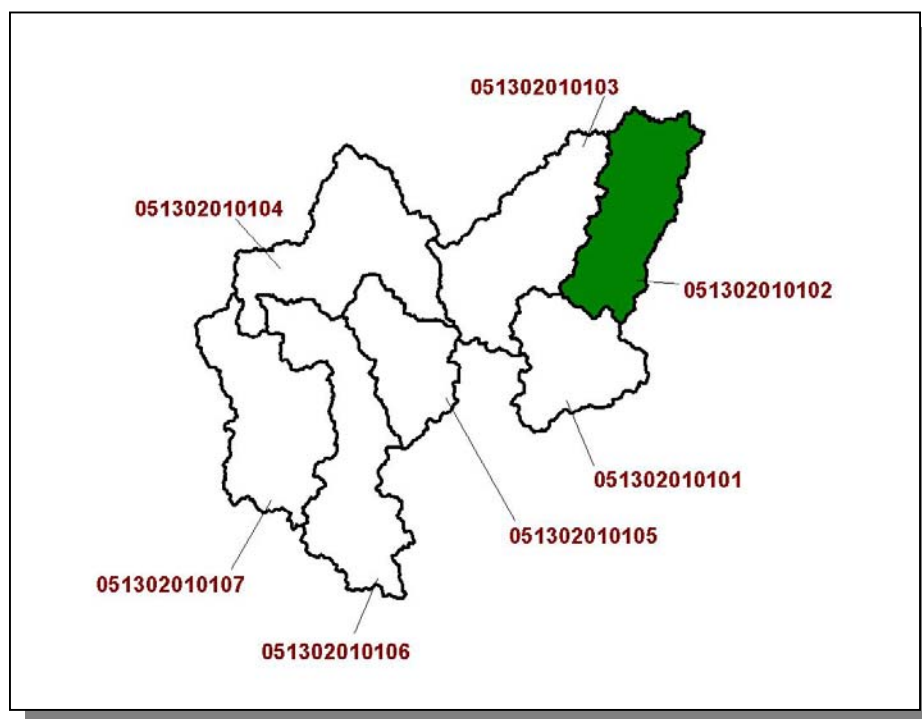


Figure 4-14. Location of Subwatershed 051302010102. All HUC-12 subwatershed boundaries are shown for reference.

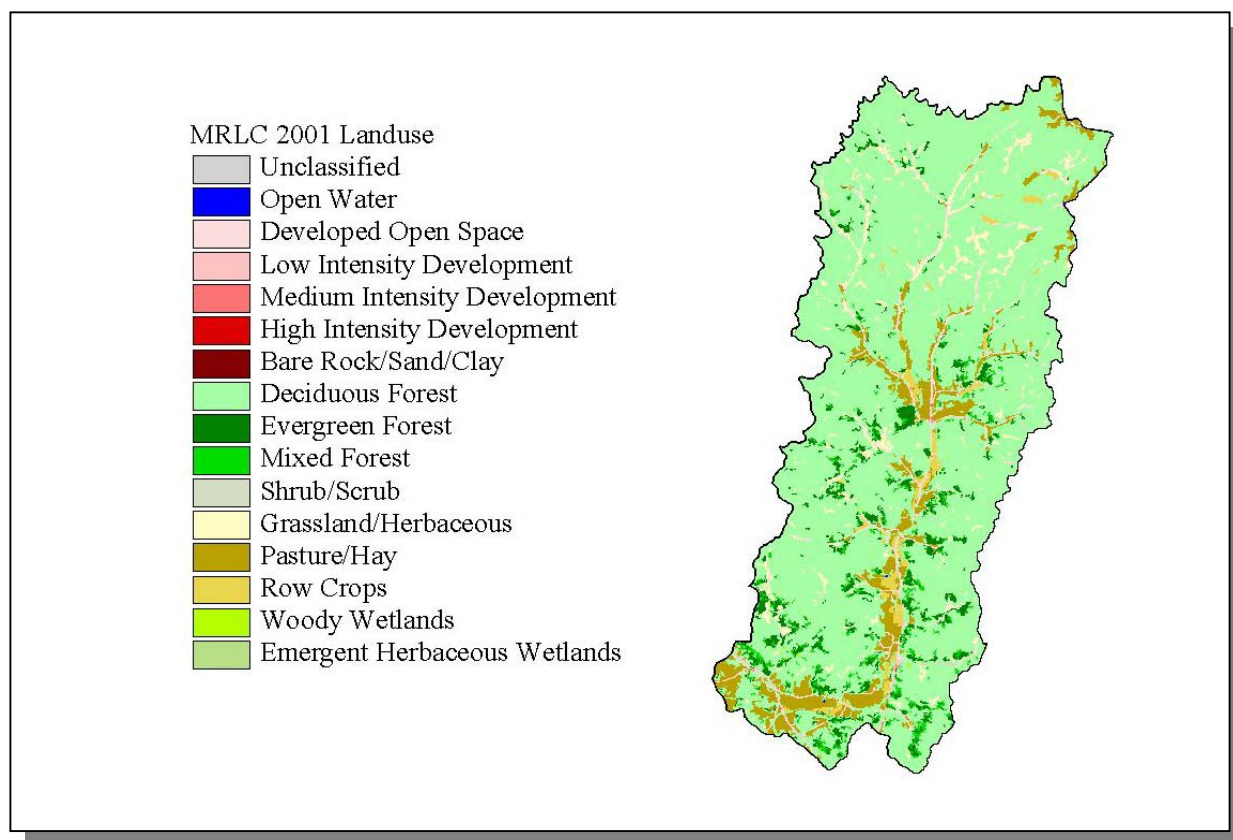


Figure 4-15. Illustration of Land Use Distribution in Subwatershed 051302010102.

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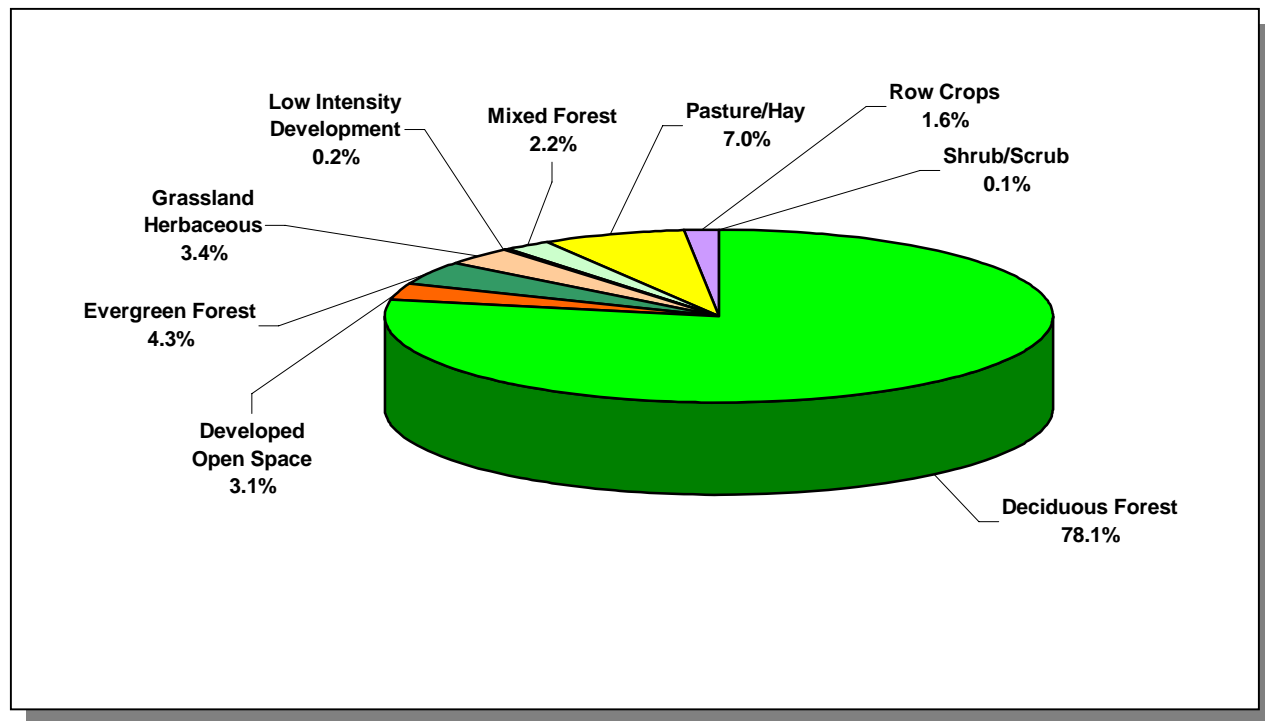


Figure 4-16. Land Use Distribution in Subwatershed 051302010102. More information is provided in Appendix IV.

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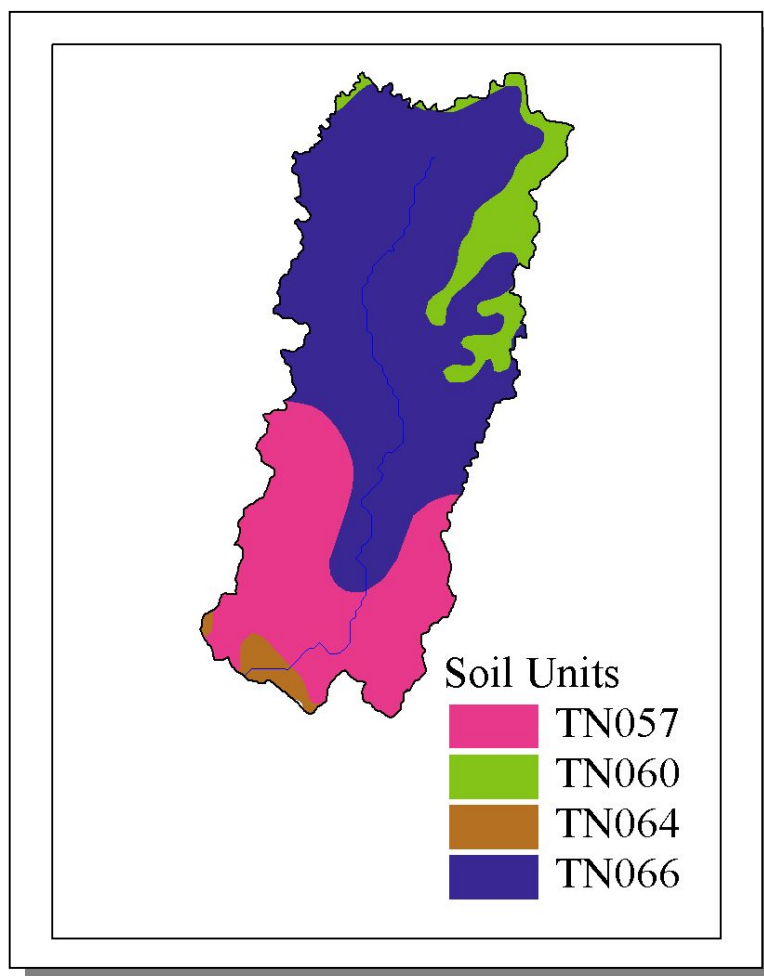


Figure 4-17. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302010102.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN057	0.00	C	1.14	5.01	Clayey Loam	0.33
TN060	5.00	B	1.30	5.32	Silty Loam	0.39
TN064	7.00	C	1.19	5.82	Silty Loam	0.37
TN066	0.00	B	2.62	4.75	Loam	0.28

Table 4-9. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302010102. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Macon	15,906	17,854	20,386	3.83	609	684	781	28.2
Smith	14,143	16,047	17,712	11.77	1,664	1,888	2,084	25.2
Trousdale	5,920	6,748	7,259	1.09	65	74	79	21.5
Total	35,969	40,649	45,357		2,338	2,646	2,944	25.9

Table 4-10. Population Estimates in Subwatershed 051302010102.

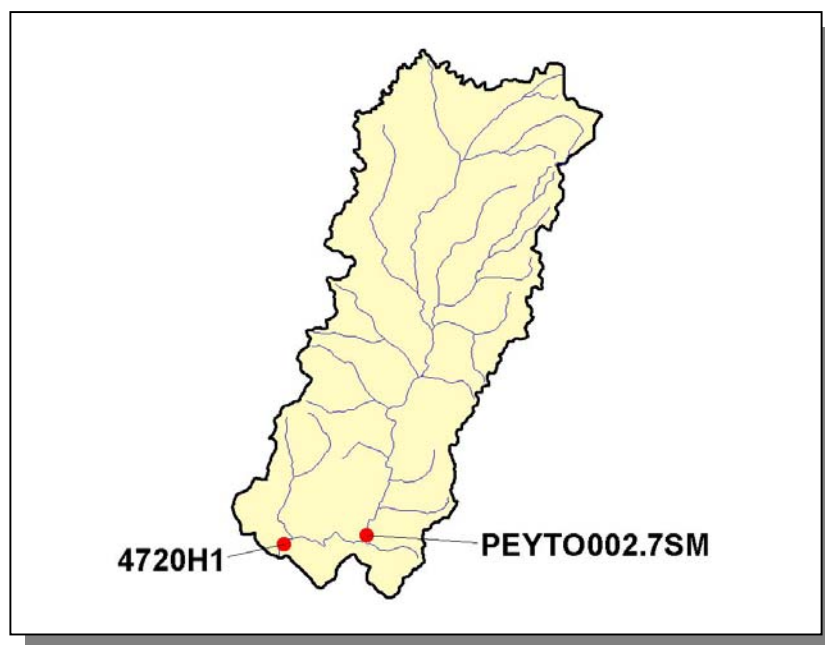


Figure 4-18. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302010102. More information, including site names and locations, is provided in Appendix IV.

4.2.A.ii.a. Point Source Contributions.

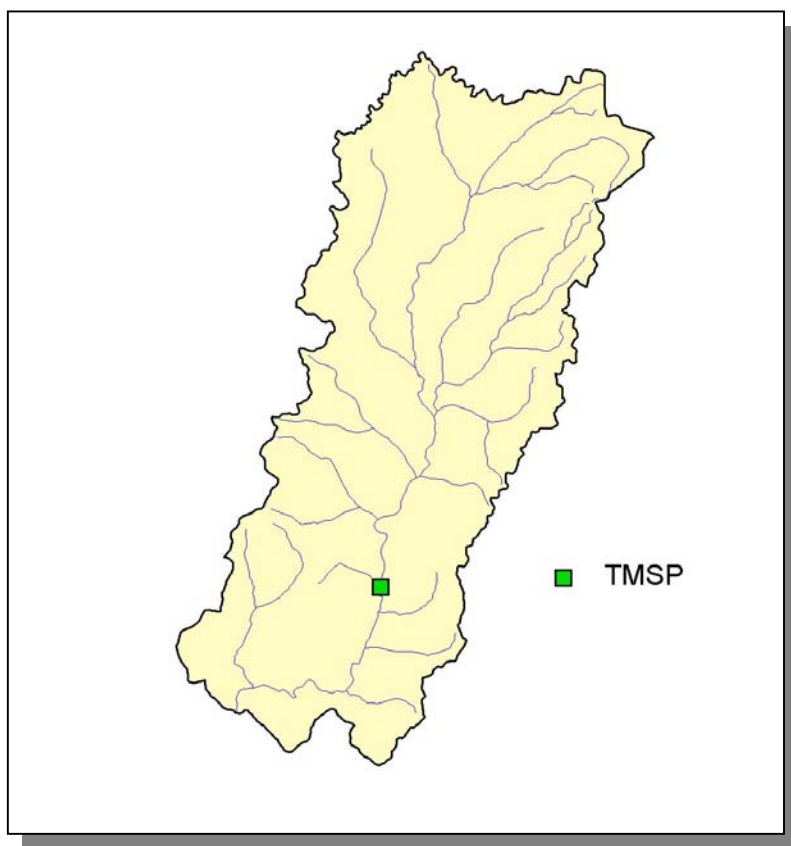


Figure 4-19. Location of Permits Issued in Subwatershed 051302010102. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-20. Location of TMSF Sites in Subwatershed 051302010102. More information, including the names of facilities, is provided in Appendix IV.

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4.2.A.ii.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
1,660	2,868	72	<5	194	29

Table 4-11. Summary of Livestock Count Estimates in Subwatershed 051302010102. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Macon	15,039	26,098	318	65	2,377	111
Smith	17,187	29,672	814	683	1,883	332
Trousdale	6,672	11,344	135	243	112	195

Table 4-12. Summary of Livestock Count Estimates in Macon, Smith, and Trousdale Counties. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Macon				
Smith	81.0	81.0	1.1	2.6
Trousdale	30.0	30.0	0.1	0.4

Table 4-13. Forest Acreage and Annual Removal Rates (1987-1994) in Macon, Smith, and Trousdale Counties.

CROPS	TONS/ACRE/YEAR
Legumes (Pastureland)	0.10
Grass (Pastureland)	1.19
Grass (Hayland)	0.14
Legumes, Grass (Hayland)	0.12
Legumes (Hayland)	0.13
Grass, Forbs, Legumes (Mixed Pasture)	0.74
Corn (Row Crops)	3.99
Soybeans (Row Crops)	6.36
Tobacco (Row Crops)	7.95
Wheat (Close-Grown Cropland)	3.43
Other Vegetable and Truck Crops	5.48
Conservation Reserve Program Lands	0.28
Farmsteads and Ranch Headquarters	0.37

Table 4-14. Annual Estimated Total Soil Loss in Subwatershed 051302010102.

4.2.A.iii. 051302010103 (Cumberland River).

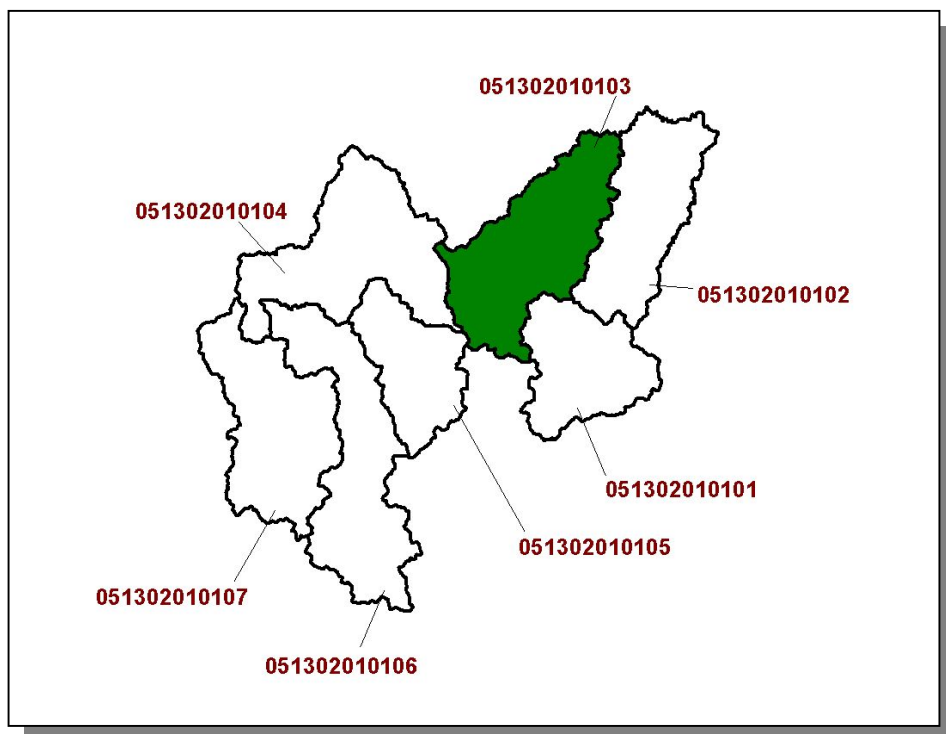


Figure 4-21. Location of Subwatershed 0513020103. All HUC-12 subwatershed boundaries are shown for reference.

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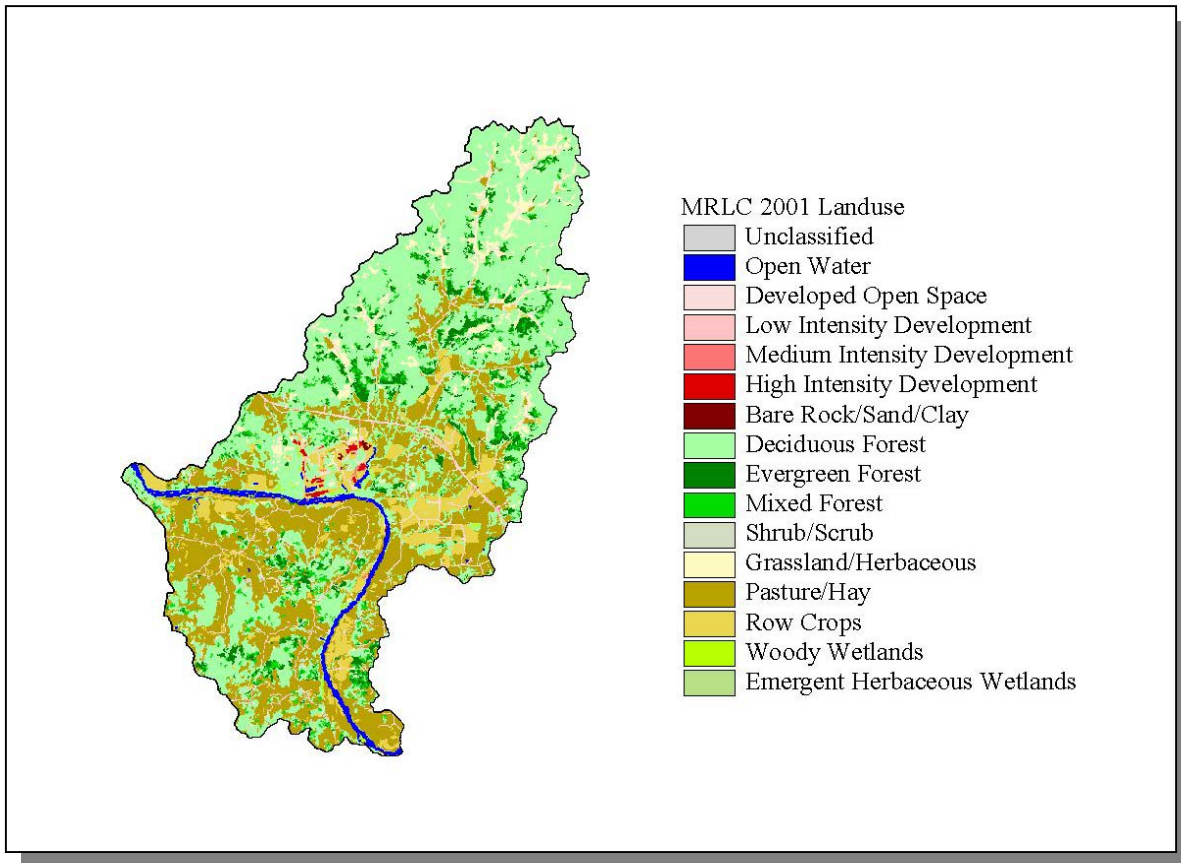


Figure 4-22. Illustration of Land Use Distribution in Subwatershed 051302010103.

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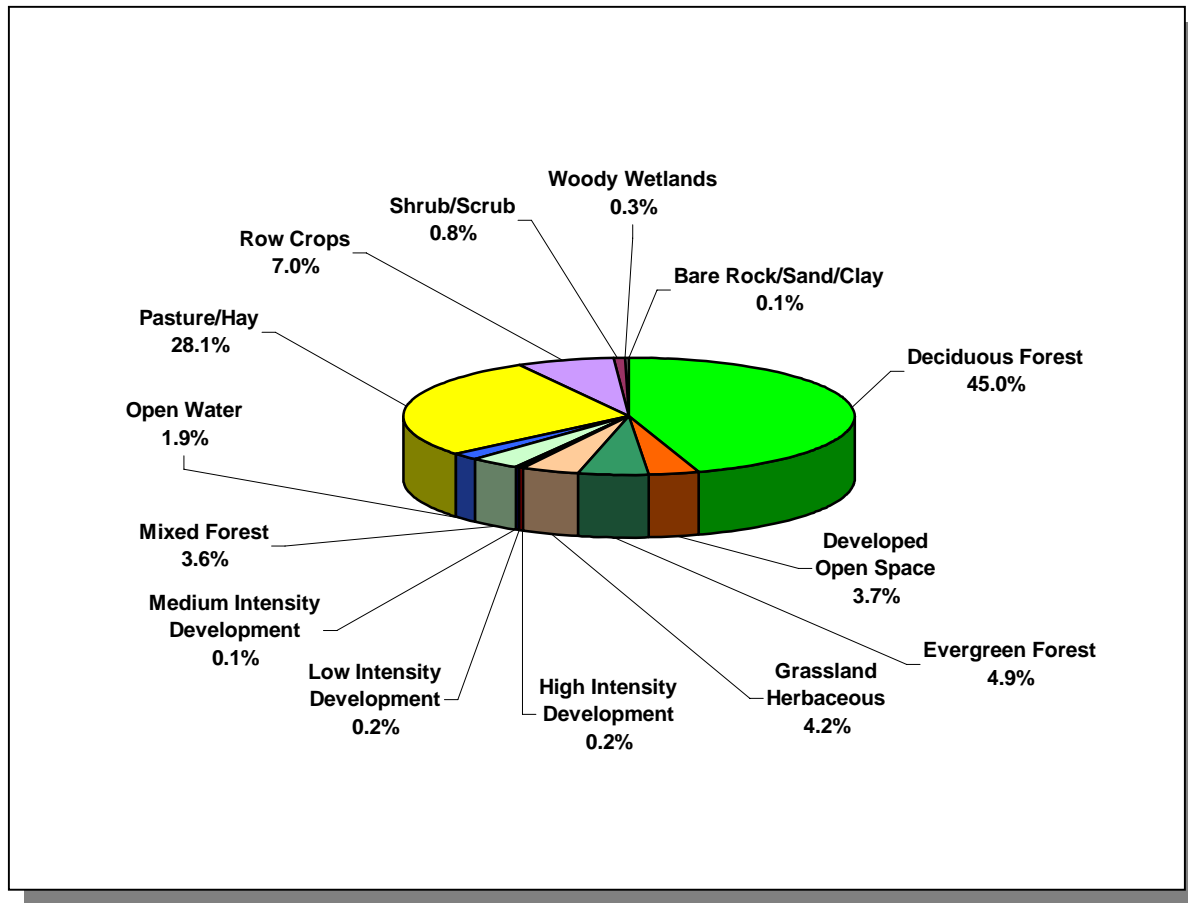


Figure 4-23. Land Use Distribution in Subwatershed 051302010103. More information is provided in Appendix IV.

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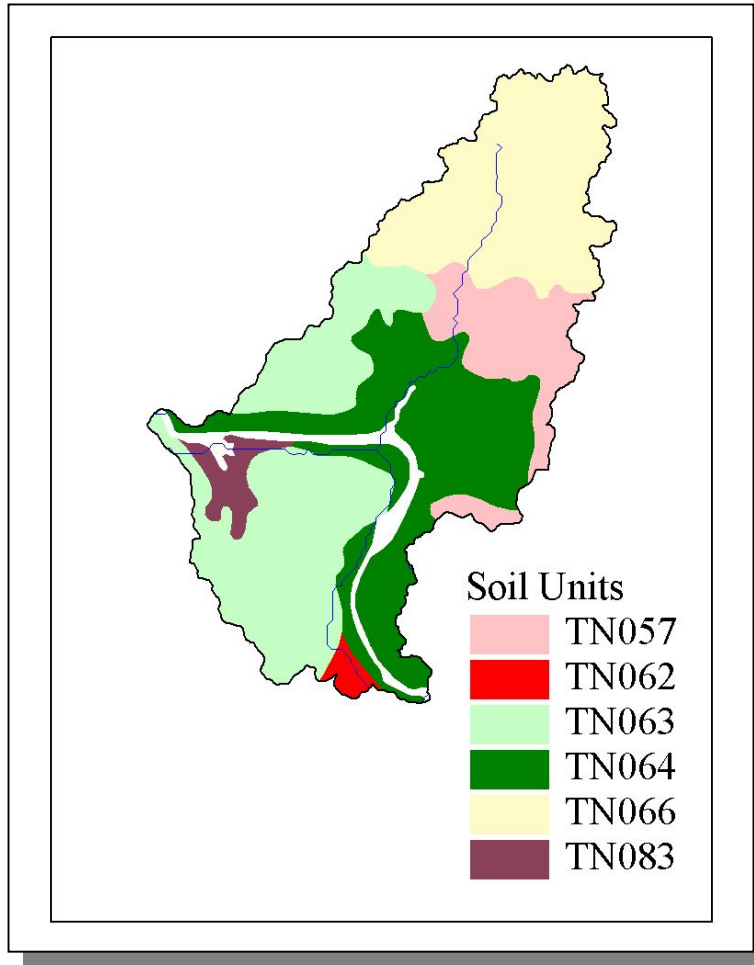


Figure 4-24. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302010103.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN057	0.00	C	1.14	5.01	Clayey Loam	0.33
TN062	0.00	C	0.98	4.40	Clayey Loam	0.26
TN063	0.00	C	1.19	5.72	Clayey Loam	0.32
TN064	7.00	C	1.19	5.82	Silty Loam	0.37
TN066	0.00	B	2.62	4.75	Loam	0.28
TN083	9.00	C	1.32	5.97	Silty Loam	0.36

Table 4-15. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302010103. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Macon	15,906	17,854	20,386	1.04	166	186	213	28.3
Smith	14,143	16,047	17,712	9.1	1,287	1,460	1,612	25.3
Trousdale	5,920	6,748	7,259	26.95	1,595	1,818	1,956	22.6
Total	35,969	40,649	45,357		3,048	3,464	3,781	24.0

Table 4-16. Population Estimates in Subwatershed 051302010103.

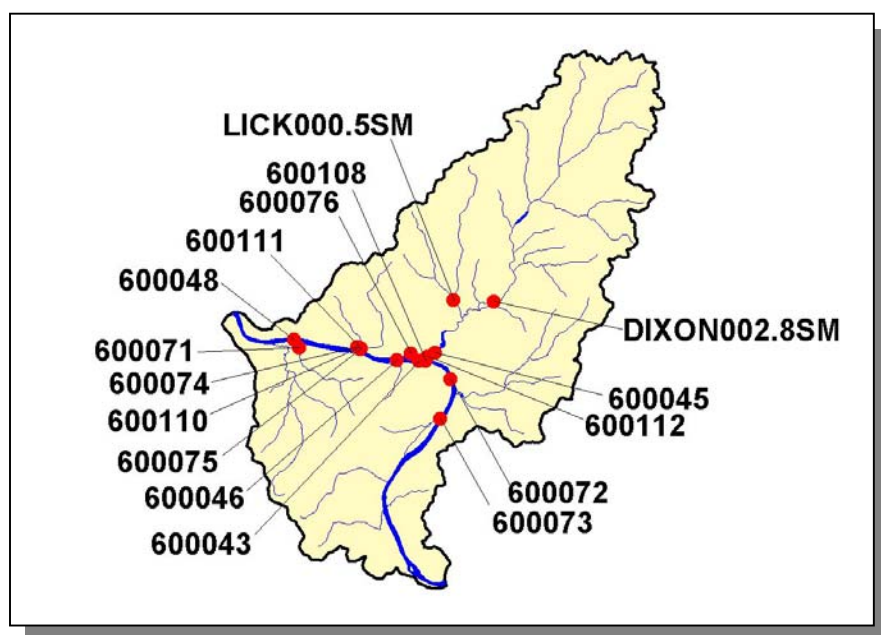


Figure 4-25. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302010103. More information, including site names and locations, is provided in Appendix IV.

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4.2.A.iii.a. Point Source Contributions.

There are no point source contributions in this subwatershed.

4.2.A.iii.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
4,134	7,106	155	8	334	91

Table 4-17. Summary of Livestock Count Estimates in Subwatershed 051302010103. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Macon	15,039	26,098	318	65	2,377	111
Smith	17,187	29,672	814	683	1,883	332
Trousdale	6,672	11,344	135	243	112	195
Wilson	27,209	51,090	1,505	1,585	1,700	465

Table 4-18. Summary of Livestock Count Estimates in Macon, Smith Trousdale and Wilson Counties. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Macon				
Smith	81.0	81.0	1.1	2.6
Trousdale	30.0	30.0	0.1	0.4
Wilson	98.1	97.0	1.7	6.8

Table 4-19. Forest Acreage and Annual Removal Rates (1987-1994) in Macon, Smith, Trousdale, and Wilson Counties.

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CROPS	TONS/ACRE/YEAR
Legumes (Pastureland)	0.40
Grass (Pastureland)	0.90
Grass (Hayland)	0.12
Legumes, Grass (Hayland)	0.23
Legumes (Hayland)	0.13
Grass, Forbs, Legumes (Mixed Pasture)	0.55
Corn (Row Crops)	3.47
Soybeans (Row Crops)	6.38
Tobacco (Row Crops)	7.20
Wheat (Close-Grown Cropland)	3.00
All Other Close-Grown Cropland	2.49
Other Vegetable and Truck Crops	5.48
Conservation Reserve Program Lands	0.28
Farmsteads and Ranch Headquarters	0.31

Table 4-20. Annual Estimated Total Soil Loss in Subwatershed 051302010103.

4.2.A.iv. 051302010104 (Cumberland River).

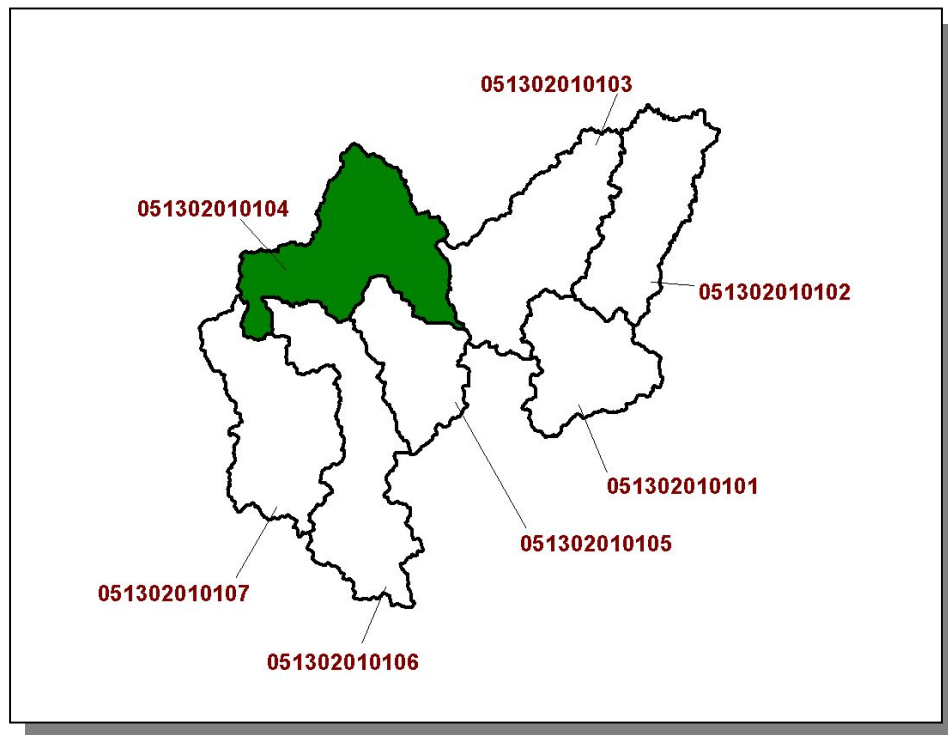


Figure 4-26. Location of Subwatershed 051302010104. All HUC-12 subwatershed boundaries are shown for reference.

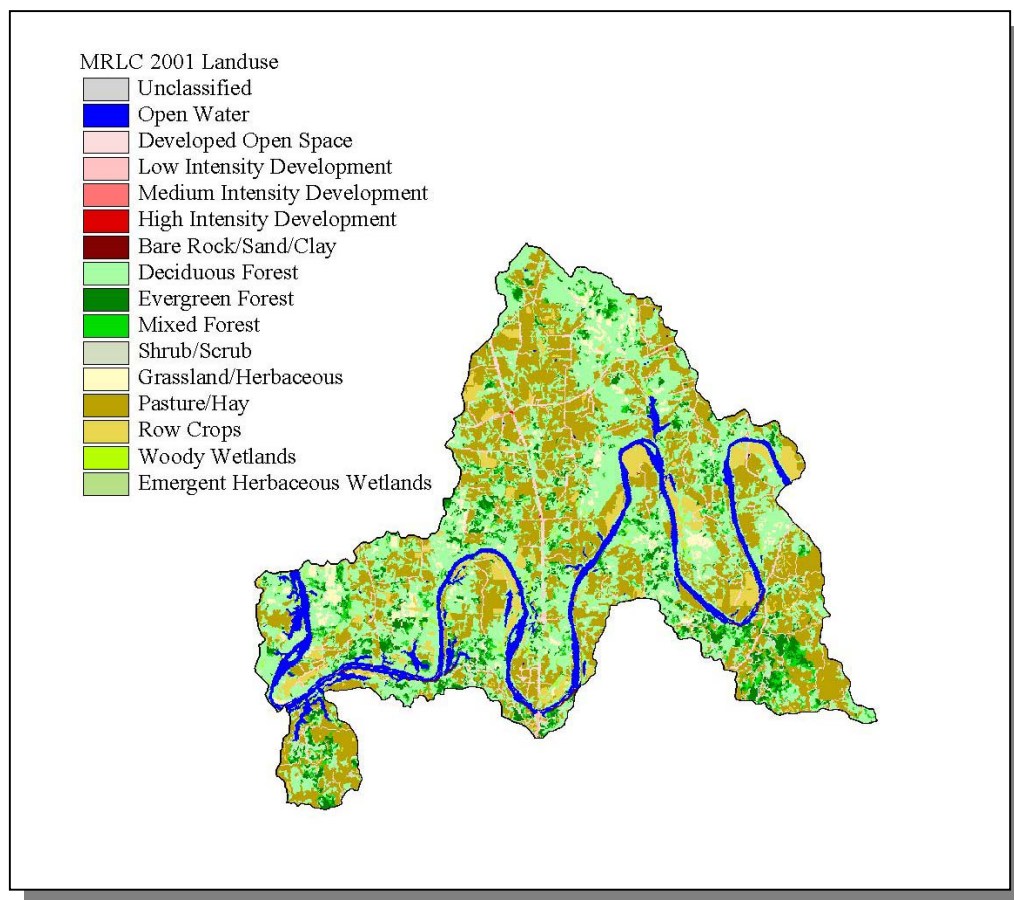


Figure 4-27. Illustration of Land Use Distribution in Subwatershed 051302010104.

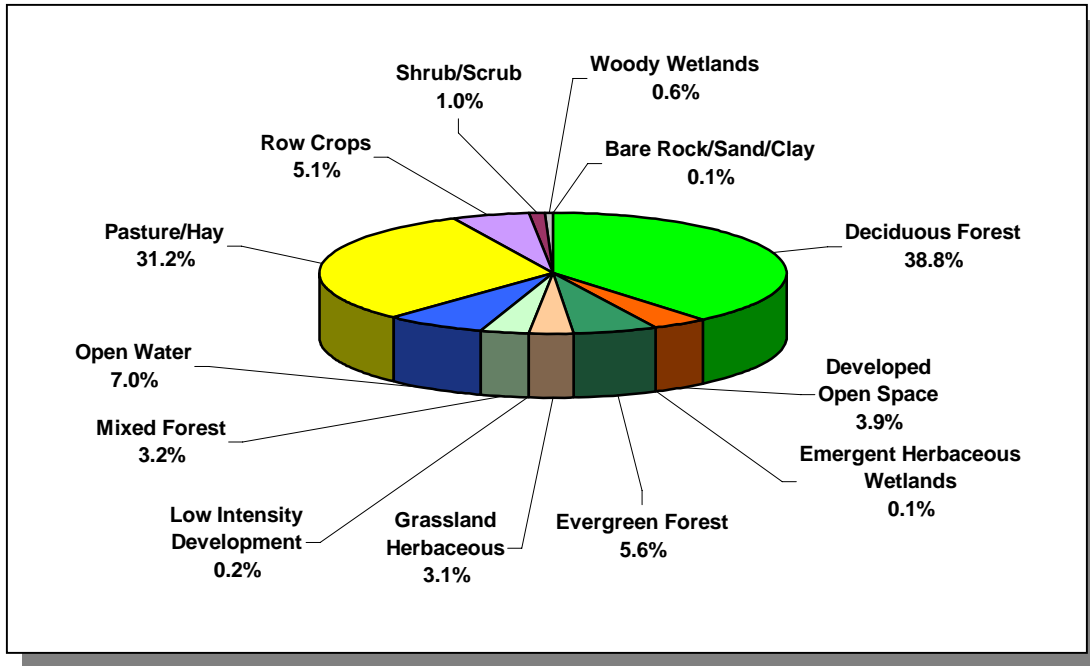


Figure 4-28. Land Use Distribution in Subwatershed 051302010104. More information is provided in Appendix IV.

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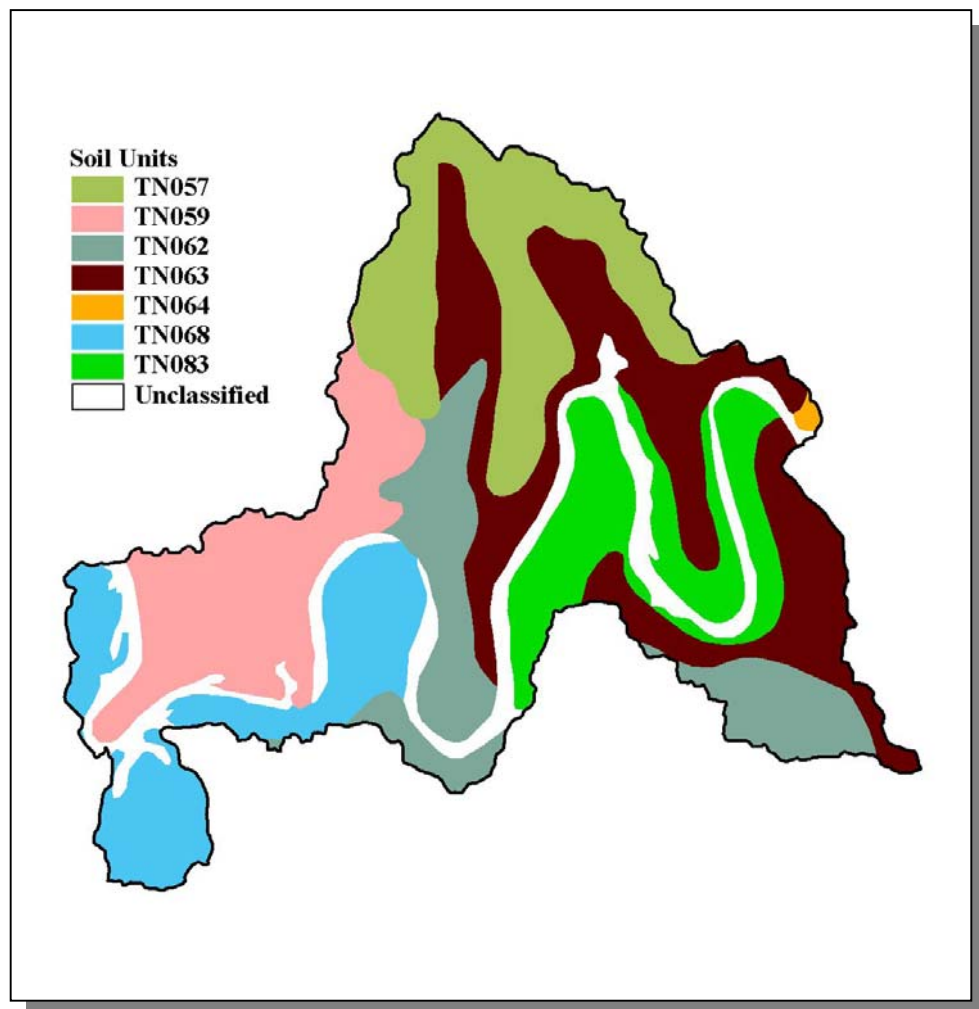


Figure 4-29. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302010104.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN057	0.00	C	1.14	5.01	Clayey Loam	0.33
TN059	0.00	C	1.08	5.70	Silty Clayey Loam	0.35
TN062	0.00	C	0.98	4.40	Clayey Loam	0.26
TN063	0.00	C	1.19	5.72	Clayey Loam	0.32
TN064	7.00	C	1.19	5.82	Silty Loam	0.37
TN068	0.00	B	1.35	5.38	Silty Loam	0.37
TN083	9.00	C	1.32	5.97	Silty Loam	0.36

Table 4-21. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302010104. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Sumner	103,281	121,936	130,449	2.41	2,485	2,934	3,138	26.3
Trousdale	5,920	6,748	7,259	29.68	1,757	2,003	2,154	22.6
Total	109,201	128,684	137,708		4,242	4,937	5,292	24.8

Table 4-22. Population Estimates in Subwatershed 051302010104.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Hartsville	Trousdale	2,188	964	907	57	0

Table 4-23. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 051302010104.

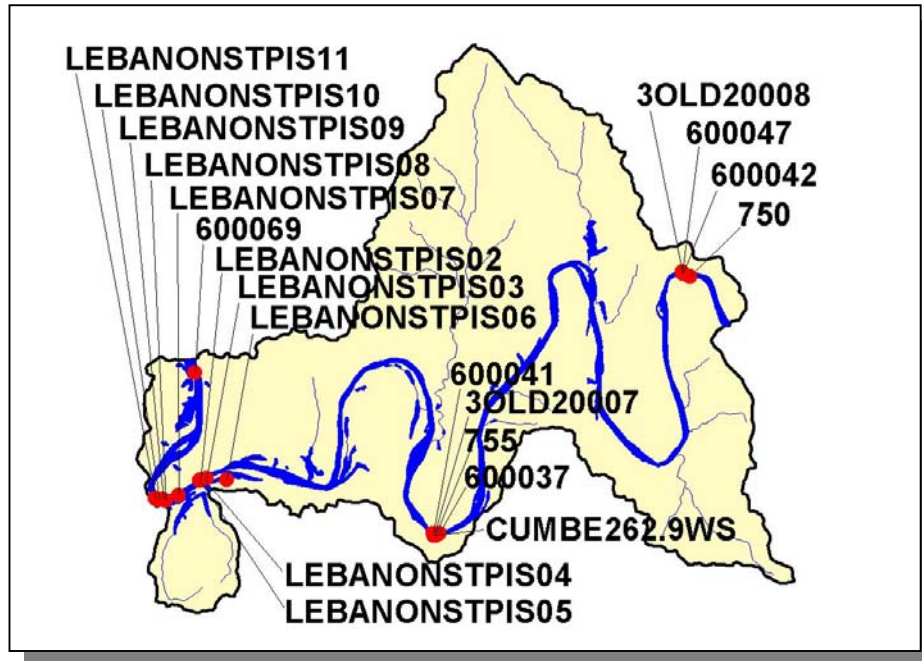


Figure 4-30. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302010104. More information, including site names and locations, is provided in Appendix IV.

4.2.A.iv.a. Point Source Contributions.

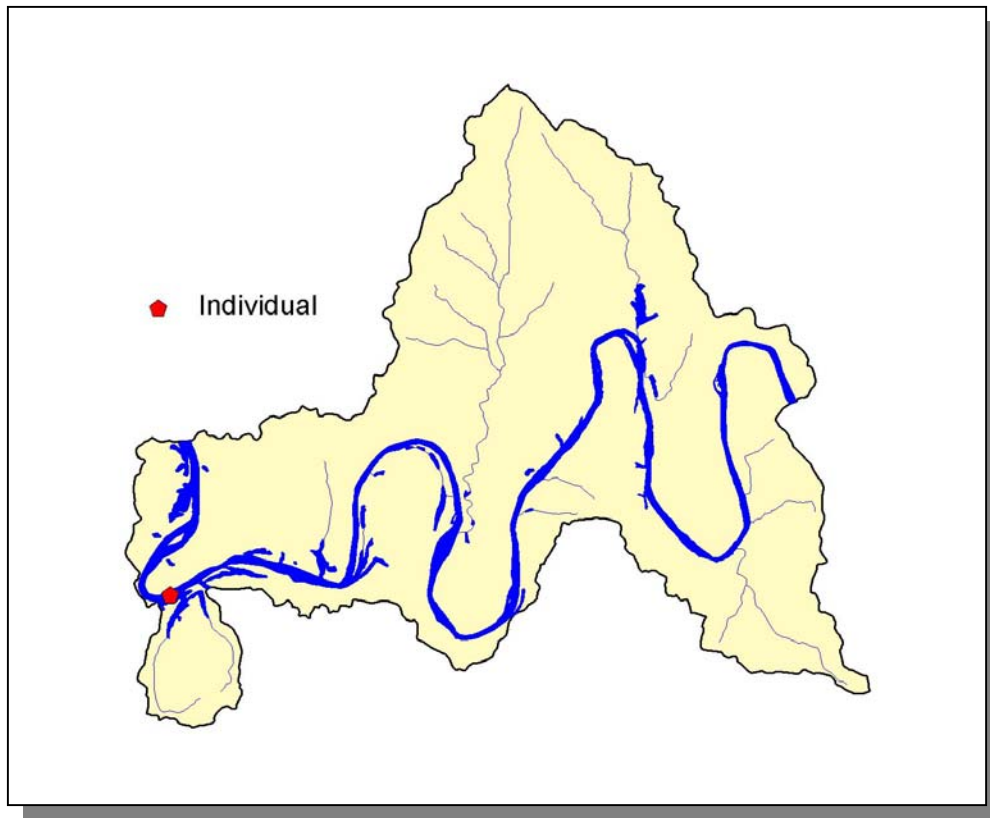


Figure 4-31. Location of Permits Issued in Subwatershed 051302010104. More information, including the names of facilities, is provided in Appendix IV.

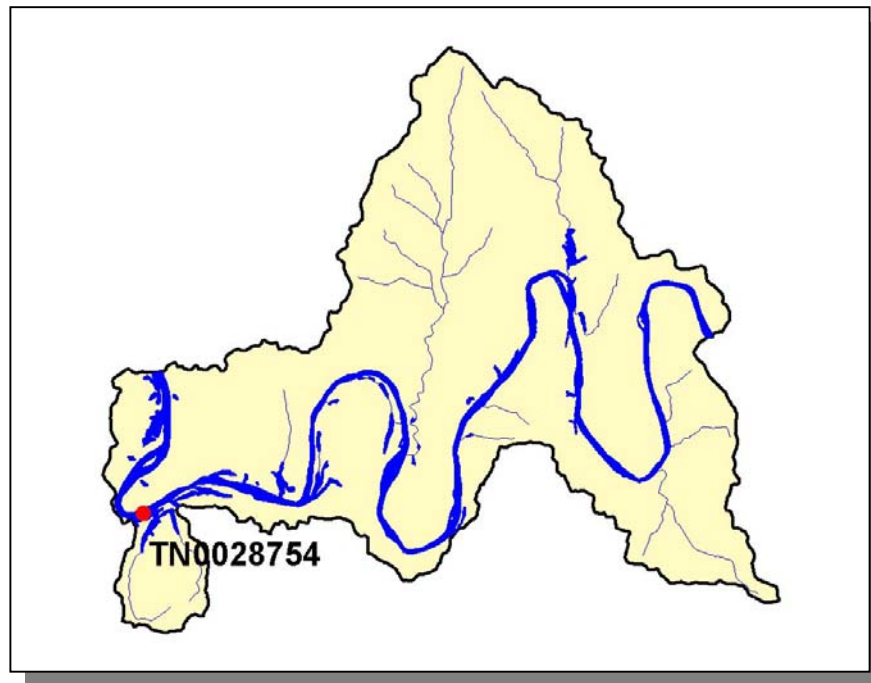


Figure 4-32. Location of Active NPDES Sites in Subwatershed 051302010104. More information, including the names of facilities, is provided in Appendix IV.

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4.2.A.iv.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
3,432	6,116	117	7	136	82

Table 4-24. Summary of Livestock Count Estimates in Subwatershed 051302010104. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Sumner	22,296	45,116	1,515	50	2,500	189
Trousdale	6,672	11,344	135	243	112	195
Wilson	27,209	51,090	1,505	1,585	1,700	465

Table 4-25. Summary of Livestock Count Estimates in Sumner, Trousdale and Wilson Counties. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Sumner	88.2	88.2	2.0	6.3
Trousdale	30.0	30.0	0.1	0.4
Wilson	98.1	97.0	1.7	6.8

Table 4-26. Forest Acreage and Annual Removal Rates (1987-1994) in Sumner, Trousdale, and Wilson Counties.

CROPS	TONS/ACRE/YEAR
Legumes (Pastureland)	0.43
Grass (Pastureland)	0.45
Grass (Hayland)	0.22
Legumes, Grass (Hayland)	0.33
Legumes (Hayland)	0.12
Grass, Forbs, Legumes (Mixed Pasture)	0.57
Corn (Row Crops)	6.34
Soybeans (Row Crops)	8.57
Tobacco (Row Crops)	11.07
Wheat (Close-Grown Cropland)	1.97
All Other Close-Grown Cropland	2.49
Other Cropland not Planted	19.23
Conservation Reserve Program Lands	0.26
Farmsteads and Ranch Headquarters	0.25

Table 4-27. Annual Estimated Total Soil Loss in Subwatershed 051302010104.

4.2.A.v. 051302010105 (Cedar Creek).

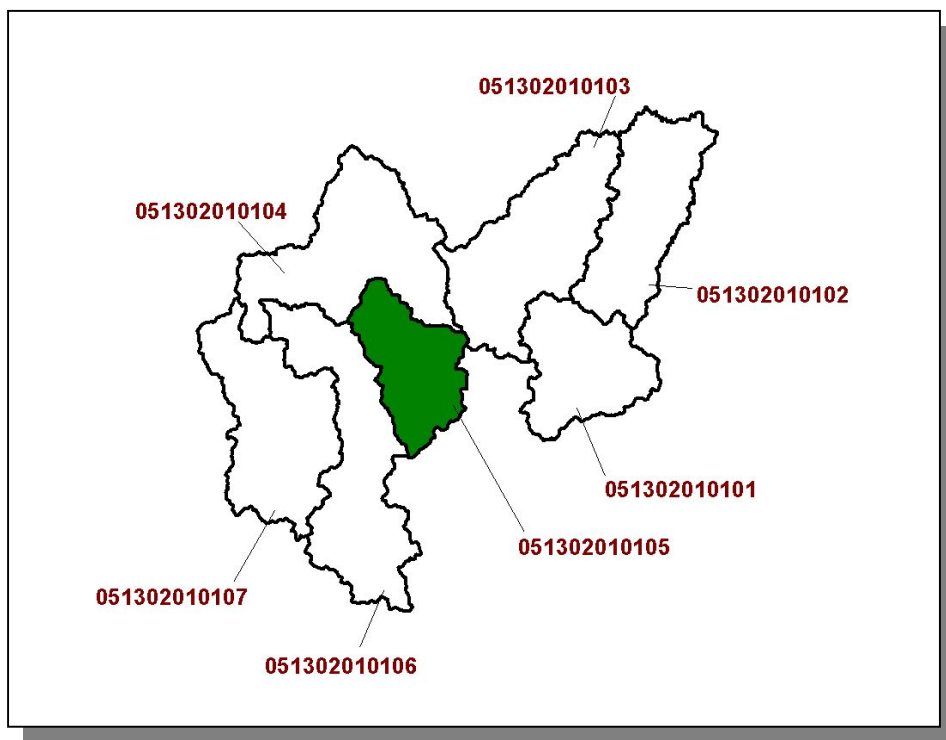


Figure 4-33. Location of Subwatershed 051302010105. All HUC-12 subwatershed boundaries are shown for reference.

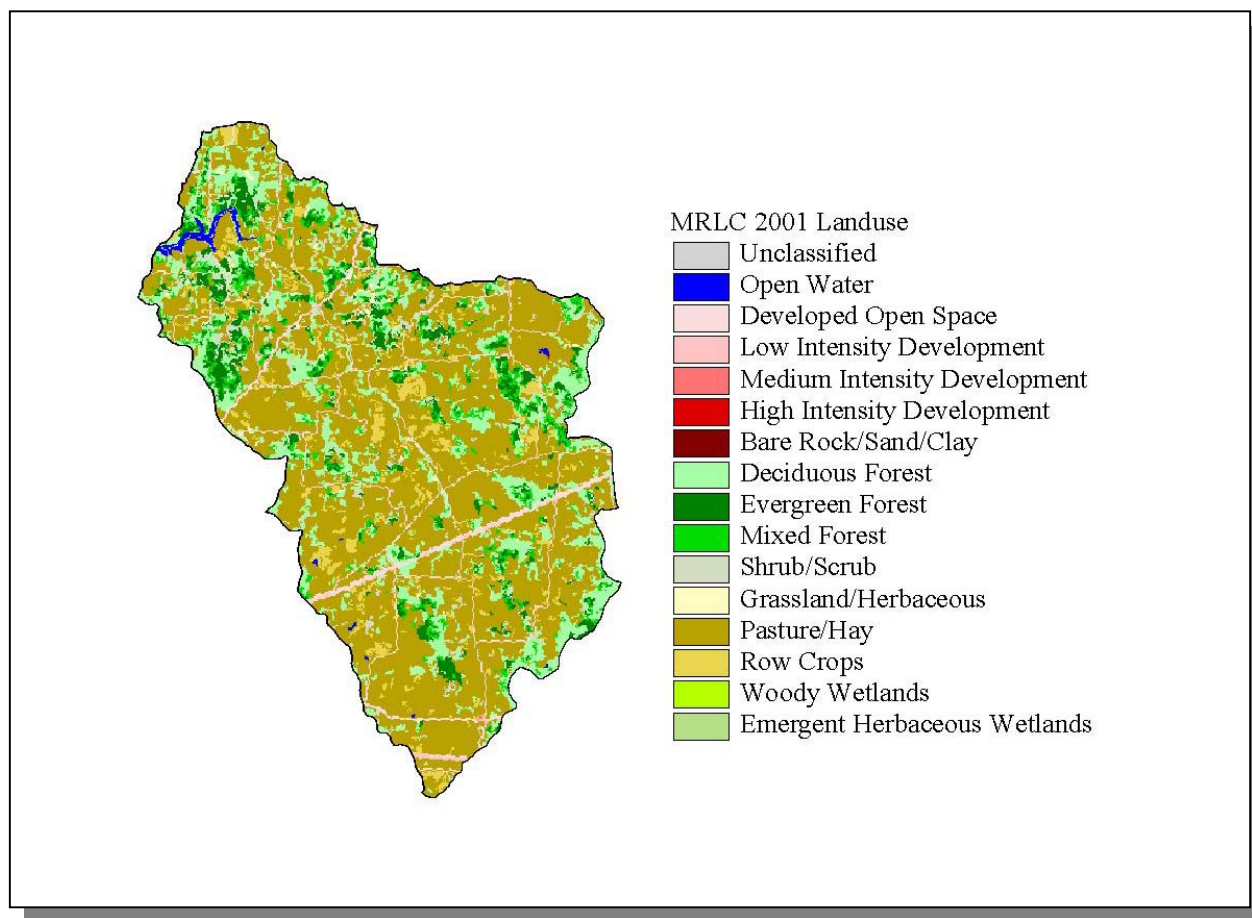


Figure 4-34. Illustration of Land Use Distribution in Subwatershed 051302010105.

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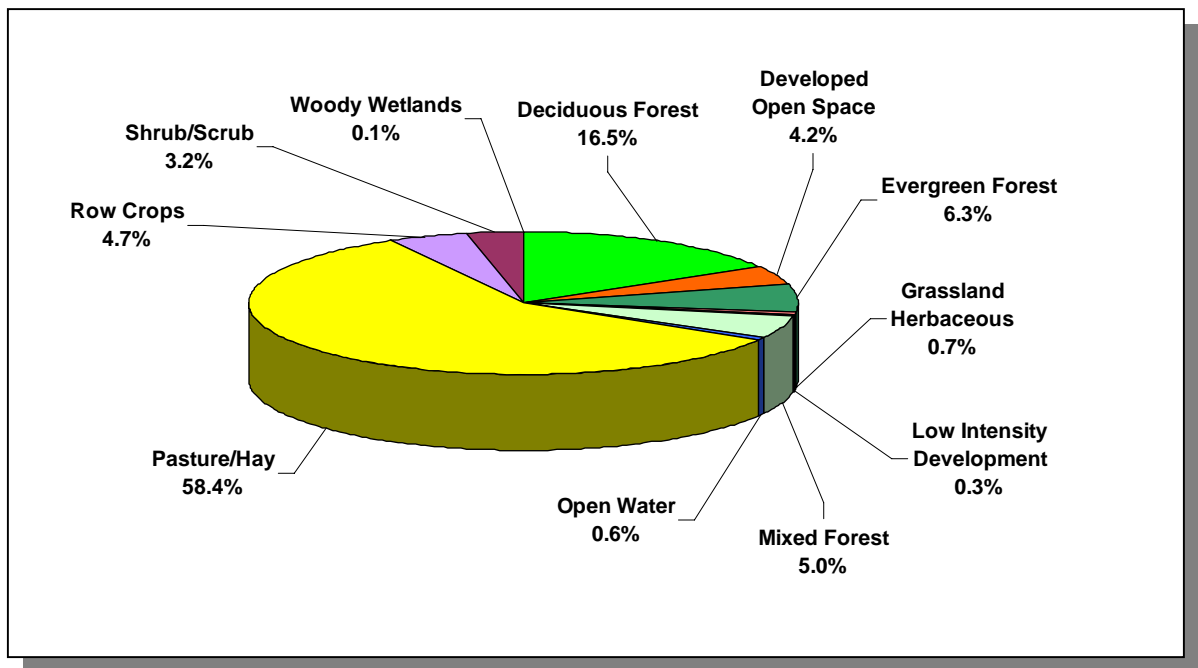


Figure 4-35. Land Use Distribution in Subwatershed 051302010105. More information is provided in Appendix IV.

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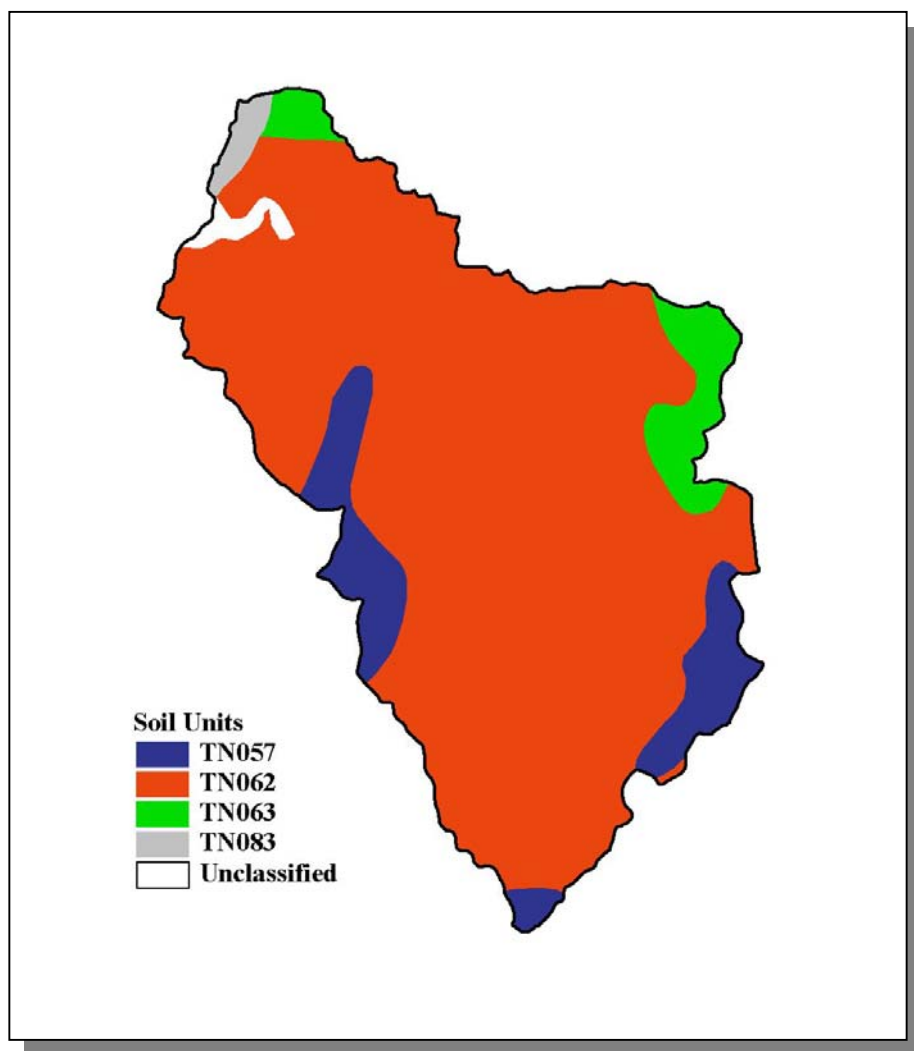


Figure 4-36. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302010105.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN057	0.00	C	1.14	5.01	Clayey Loam	0.33
TN062	0.00	C	0.98	4.40	Clayey Loam	0.26
TN063	0.00	C	1.19	5.72	Clayey Loam	0.32
TN083	9.00	C	1.32	5.97	Silty Loam	0.36

Table 4-28. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302010105. The definition of "Hydrologic Group" is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Trousdale	5,920	6,748	7,259	0.38	22	25	27	22.7

Table 4-29. Population Estimates in Subwatershed 051302010105.

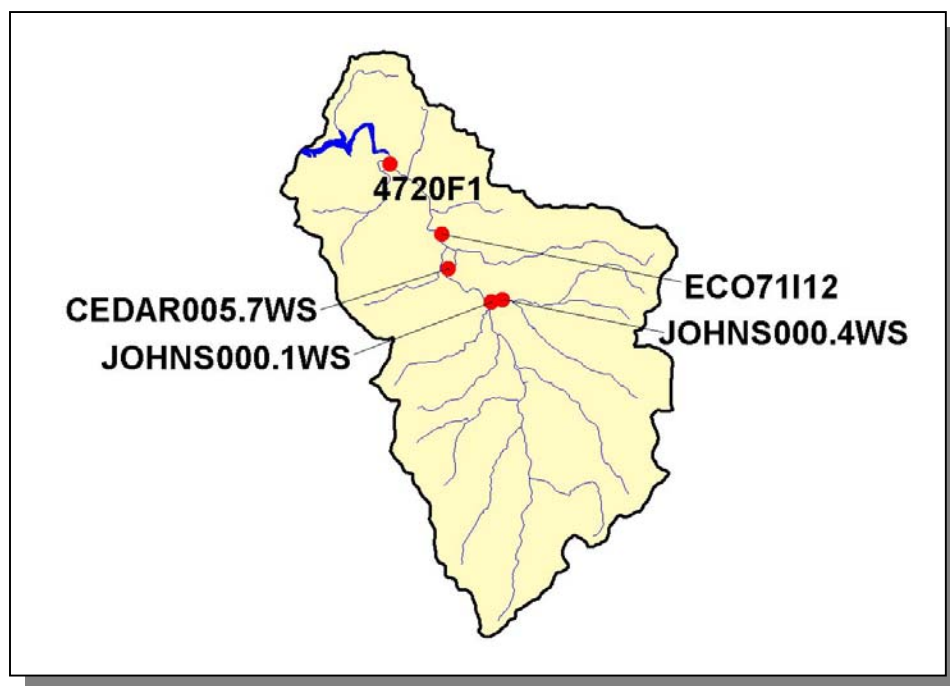


Figure 4-37. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302010105. More information, including site names and locations, is provided in Appendix IV.

4.2.A.v.a. Point Source Contributions.

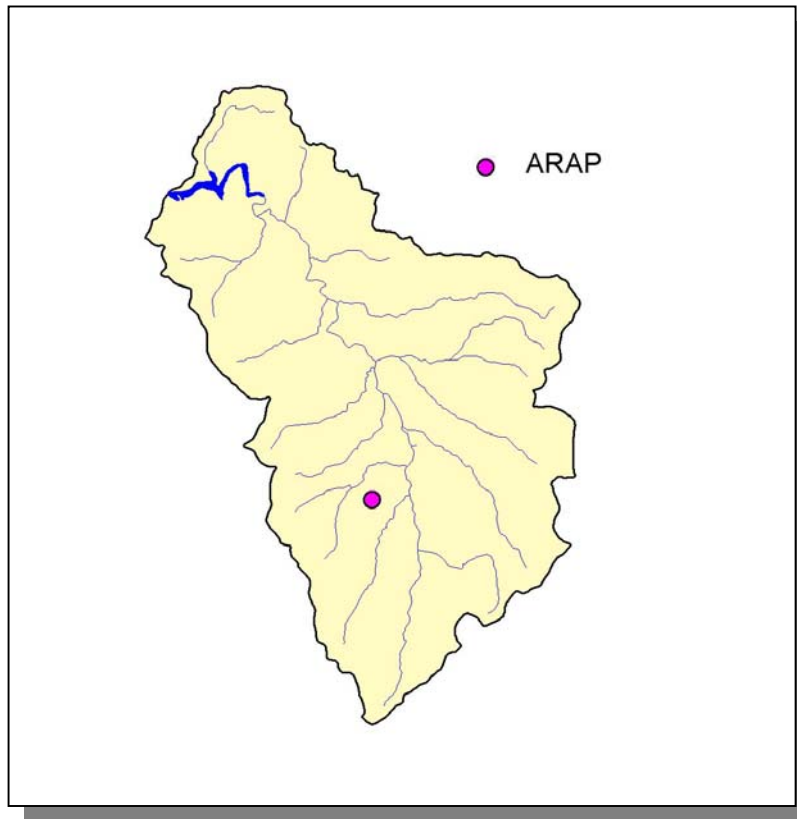


Figure 4-38. Location of Permits Issued in Subwatershed 051302010105. More information, including the names of facilities, is provided in Appendix IV.

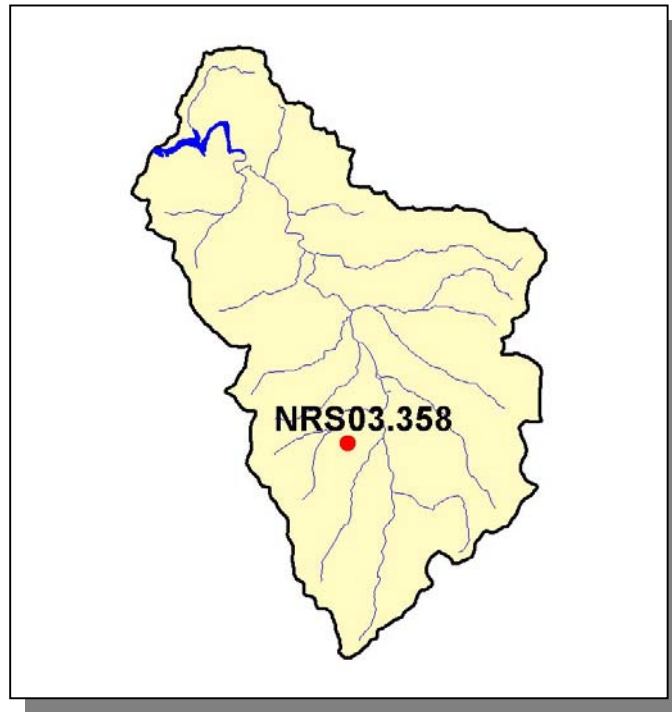


Figure 4-39. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 051302010105. More information is provided in Appendix IV.

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4.2.A.v.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
2,461	4,615	135	8	152	43

Table 4-30. Summary of Livestock Count Estimates in Subwatershed 051302010105.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Trousdale	6,672	11,344	135	243	112	195
Wilson	27,209	51,090	1,505	1,585	1,700	465

Table 4-31. Summary of Livestock Count Estimates in Trousdale and Wilson Counties.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Trousdale	30.0	30.0	0.1	0.4
Wilson	98.1	97.0	1.7	6.8

Table 4-32. Forest Acreage and Annual Removal Rates (1987-1994) in Trousdale and Wilson Counties.

CROPS	TONS/ACRE/YEAR
Legumes (Pastureland)	0.43
Grass (Pastureland)	0.42
Grass (Hayland)	0.37
Legumes, Grass (Hayland)	0.37
Grass, Forbs, Legumes (Mixed Pasture)	0.91
Corn (Row Crops)	2.22
Soybeans (Row Crops)	6.72
Tobacco (Row Crops)	19.07
Wheat (Close-Grown Cropland)	1.96
All Other Close-Grown Cropland	2.49
Farmsteads and Ranch Headquarters	0.26

Table 4-33. Annual Estimated Total Soil Loss in Subwatershed 051302010105.

4.2.A.vi. 051302010106 (Spring Creek).

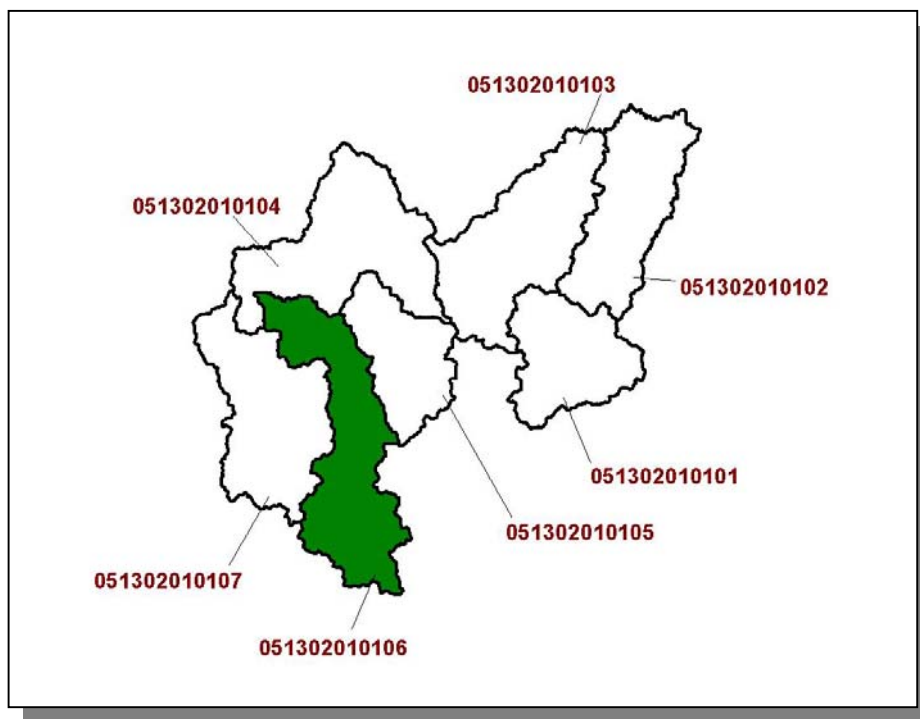


Figure 4-40. Location of Subwatershed 051302010106. All HUC-12 subwatershed boundaries are shown for reference.

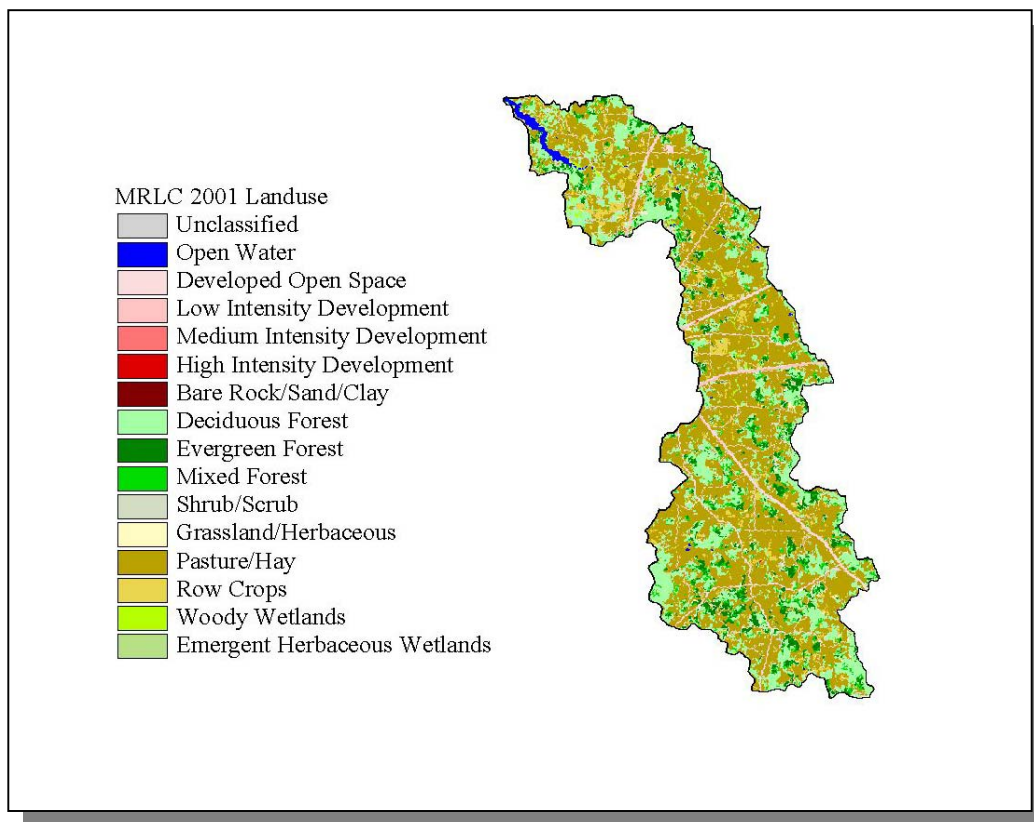


Figure 4-41. Illustration of Land Use Distribution in Subwatershed 051302010106.

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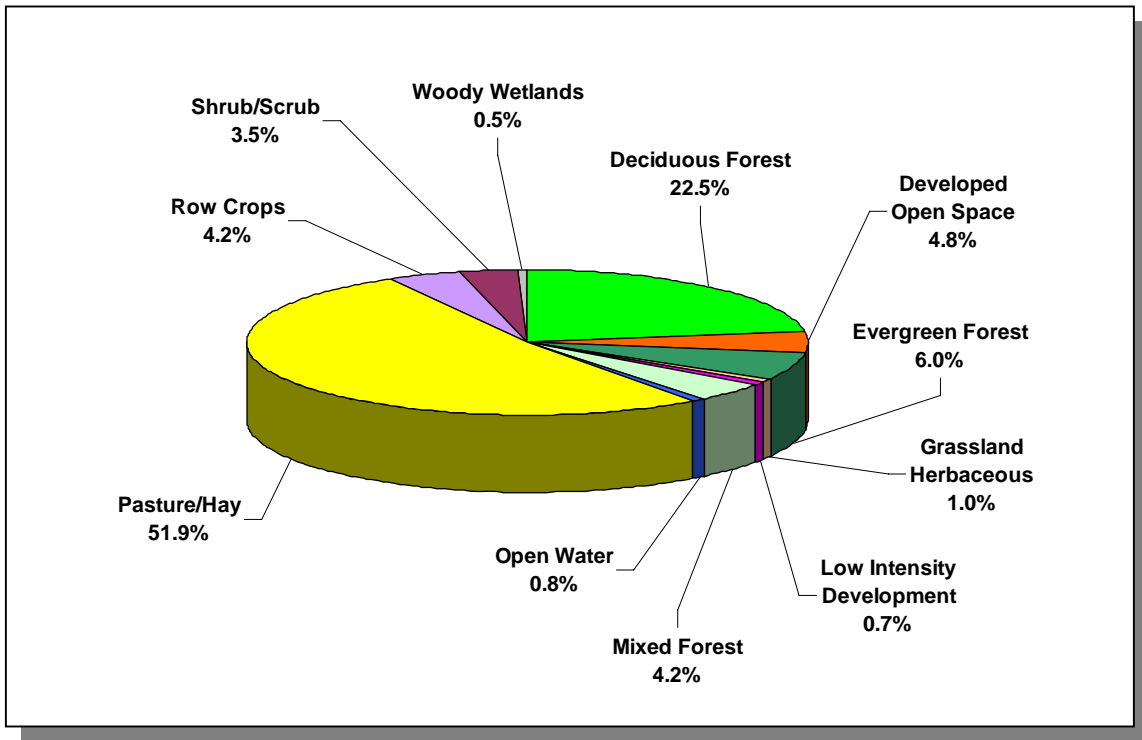


Figure 4-42. Land Use Distribution in Subwatershed 051302010106. More information is provided in Appendix IV.

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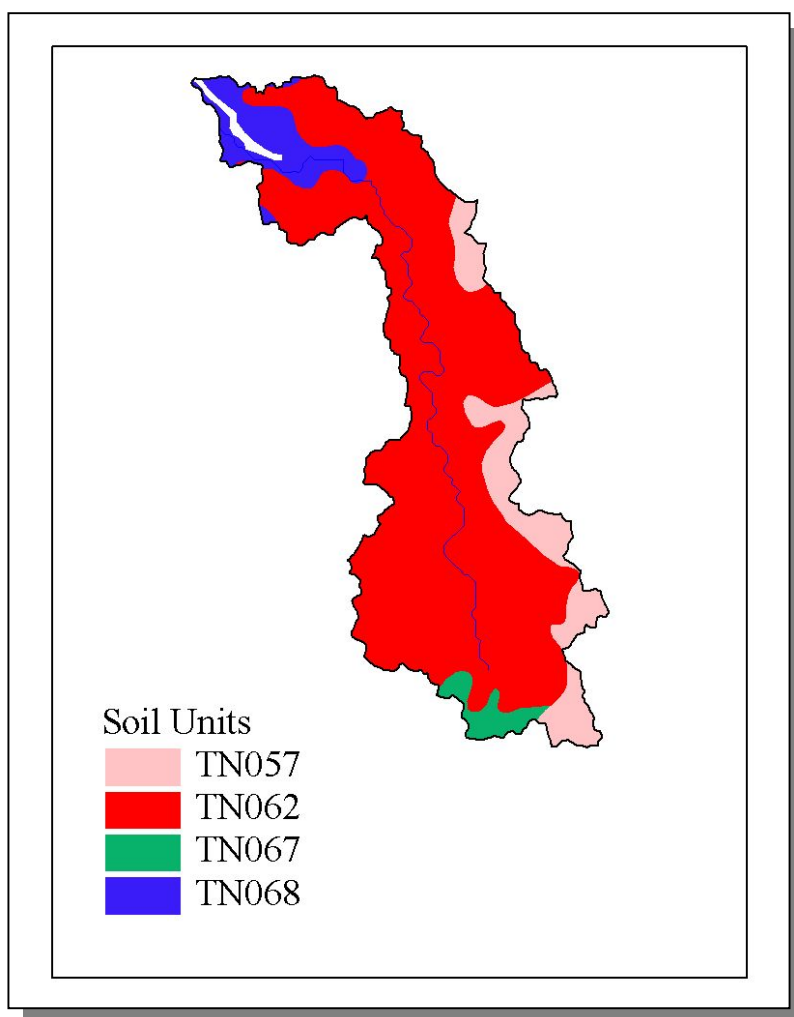


Figure 4-43. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302010106.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN057	0.00	C	1.14	5.01	Clayey Loam	0.33
TN062	0.00	C	0.98	4.40	Clayey Loam	0.26
TN067	2.00	C	2.69	5.51	Silty Loam	0.35
TN068	0.00	B	1.35	5.38	Silty Loam	0.37

Table 4-34. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302010106. The definition of “Hydrologic Group” is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Sumner	103,281	121,936	130,449	0.02	21	24	26	23.8

Table 4-35. Population Estimates in Subwatershed 051302010106.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Lebanon	Wilson	15,208	6,592	5,440	1,137	15

Table 4-36. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 051302010106.

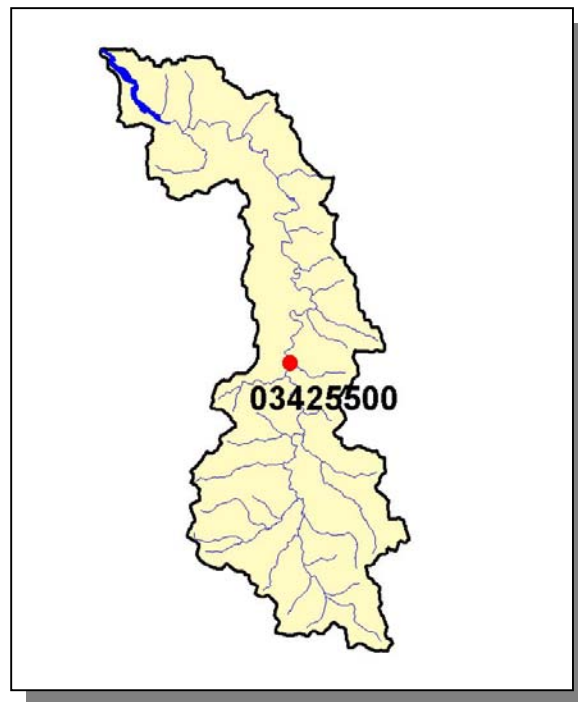


Figure 4-44. Location of Historical Streamflow Data Collection Sites in Subwatershed 051302010106. More information is provided in Appendix IV.

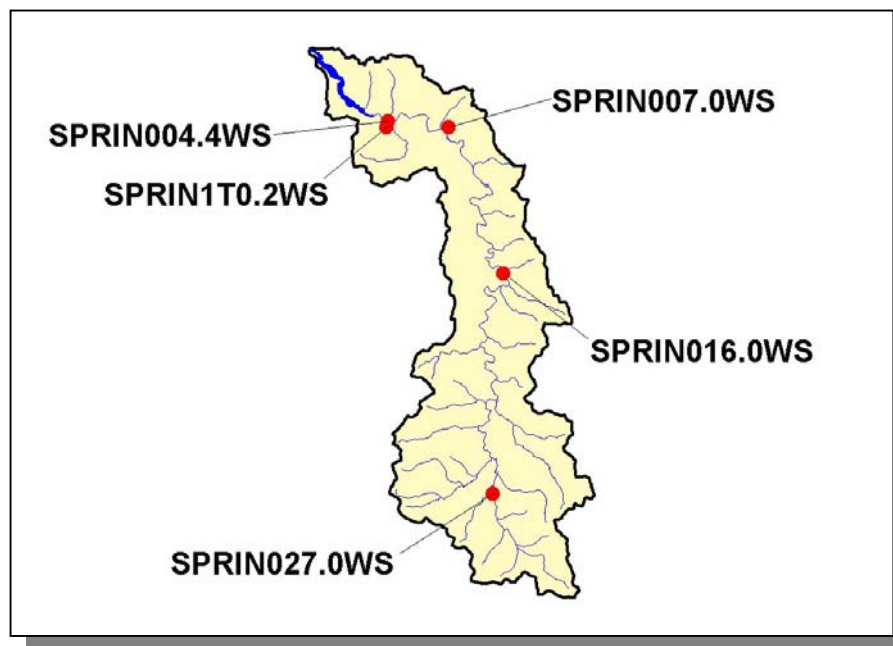


Figure 4-45. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302010106. More information, including site names and locations, is provided in Appendix IV.

4.2.A.vi.a. Point Source Contributions.

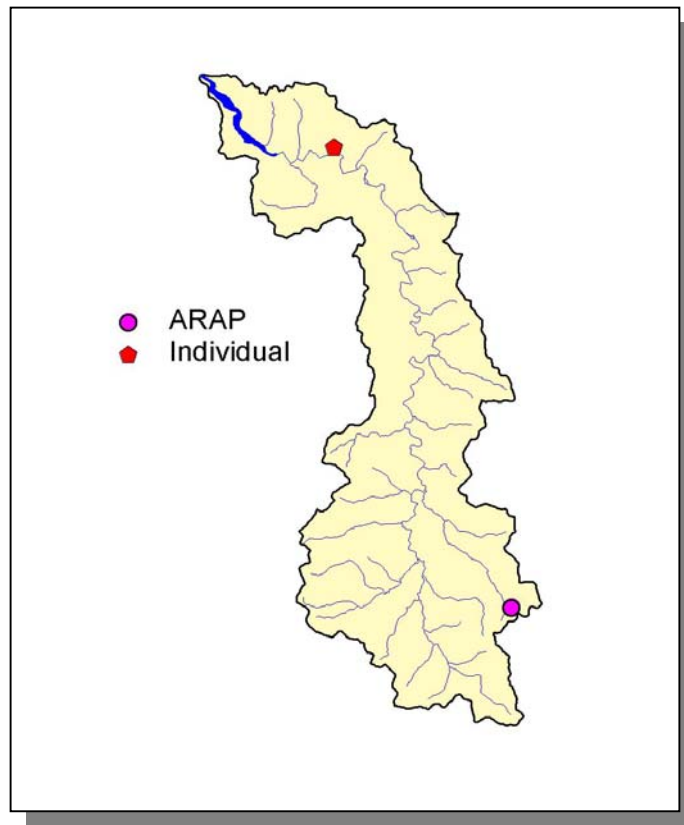


Figure 4-46. Location of Permits Issued in Subwatershed 051302010106. More information, including the names of facilities, is provided in Appendix IV.

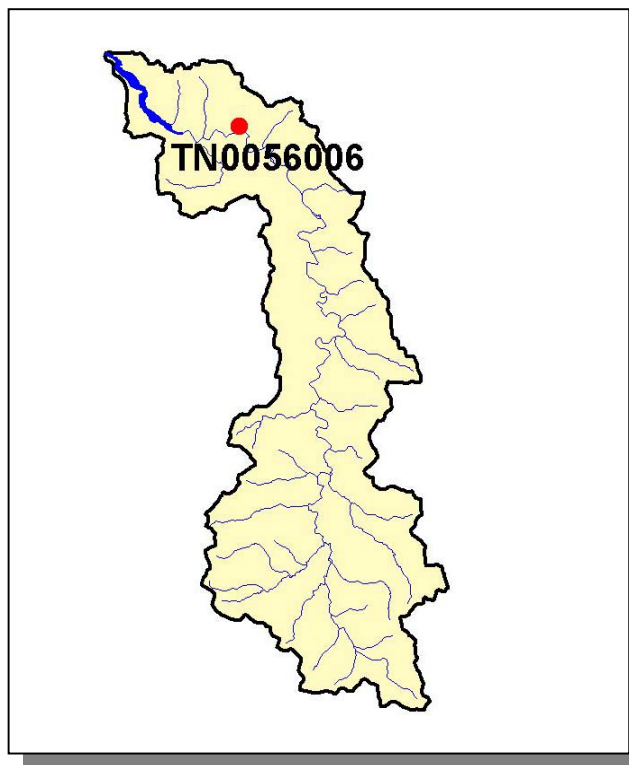


Figure 4-47. Location of Active NPDES Sites in Subwatershed 051302010106. More information, including the names of facilities, is provided in Appendix IV.

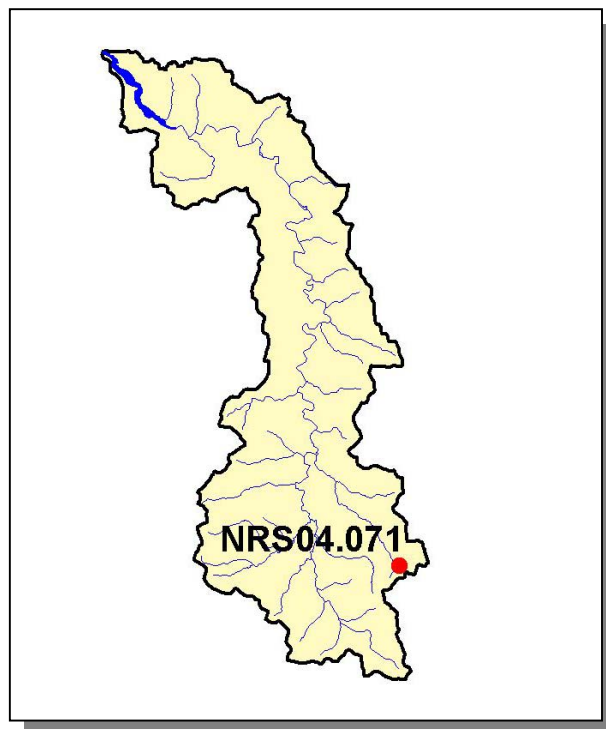


Figure 4-48. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 051302010106. More information is provided in Appendix IV.

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4.2.A.vi.b. Nonpoint Source Contributions.

LIVESTOCK					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
3,890	7,305	215	12	243	66

Table 4-37. Summary of Livestock Count Estimates in Subwatershed 051302010106.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Sumner	22,296	45,116	1,515	50	2,500	189
Wilson	27,209	51,090	1,505	1,585	1,700	465

Table 4-38. Summary of Livestock Count Estimates in Sumner and Wilson Counties.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Sumner	88.2	88.2	2.0	6.3
Wilson	98.1	97.0	1.7	6.8

Table 4-39. Forest Acreage and Annual Removal Rates (1987-1994) in Sumner and Wilson Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.42
Grass (Hayland)	0.37
Legumes, Grass (Hayland)	0.37
Legumes (Hayland)	0.12
Grass, Forbs, Legumes (Mixed Pasture)	0.91
Corn (Row Crops)	2.24
Soybeans (Row Crops)	6.73
Tobacco (Row Crops)	19.23
Wheat (Close-Grown Cropland)	1.96
All Other Close-Grown Cropland	2.49
Other Cropland not Planted	19.23
Conservation Reserve Program Lands	0.26
Farmsteads and Ranch Headquarters	0.26

Table 4-40. Annual Estimated Total Soil Loss in Subwatershed 051302010106.

4.2.A.vii. 051302010107 (Bartons Creek).

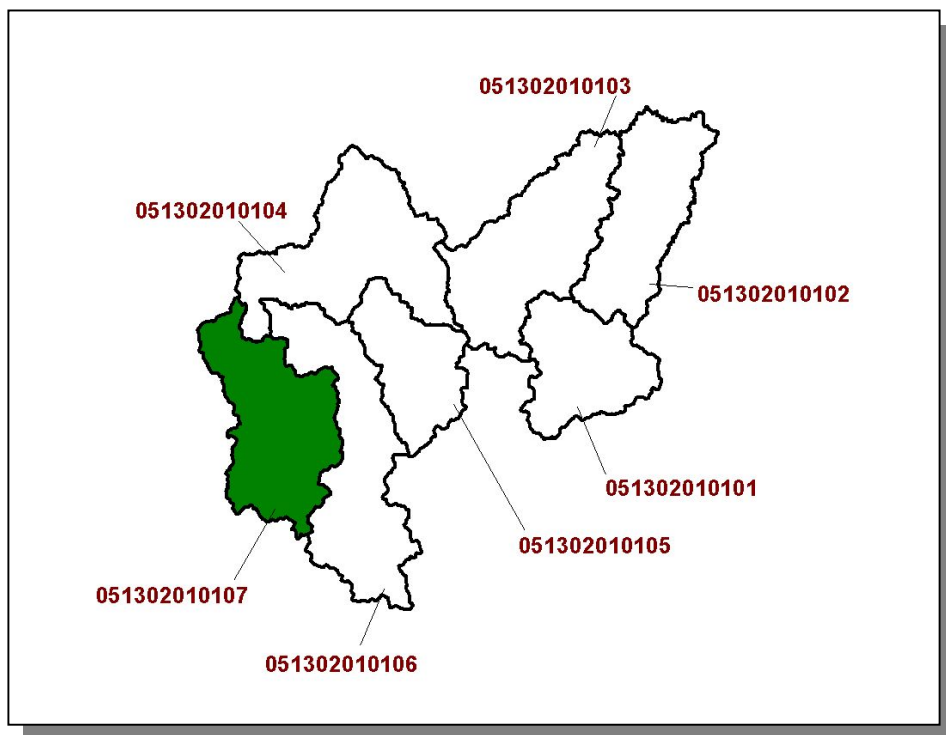


Figure 4-49. Location of Subwatershed 051302010107. All HUC-12 subwatershed boundaries are shown for reference.

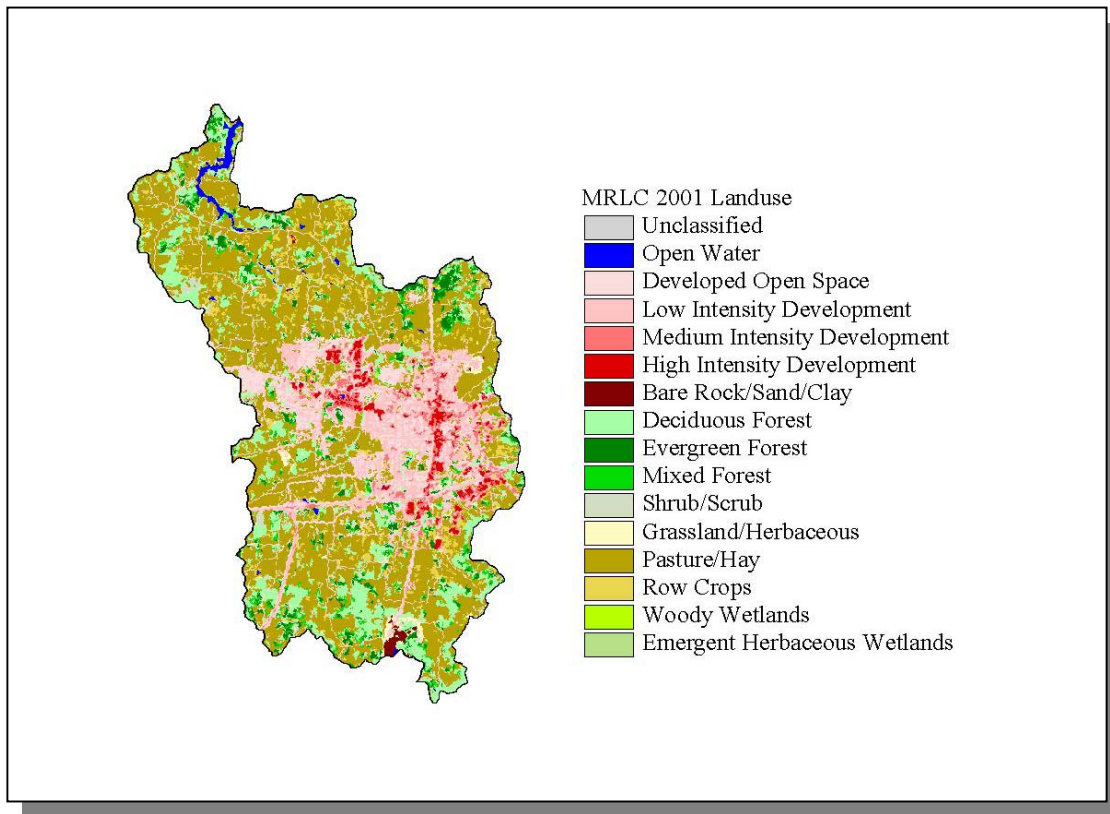


Figure 4-50. Illustration of Land Use Distribution in Subwatershed 051302010107.

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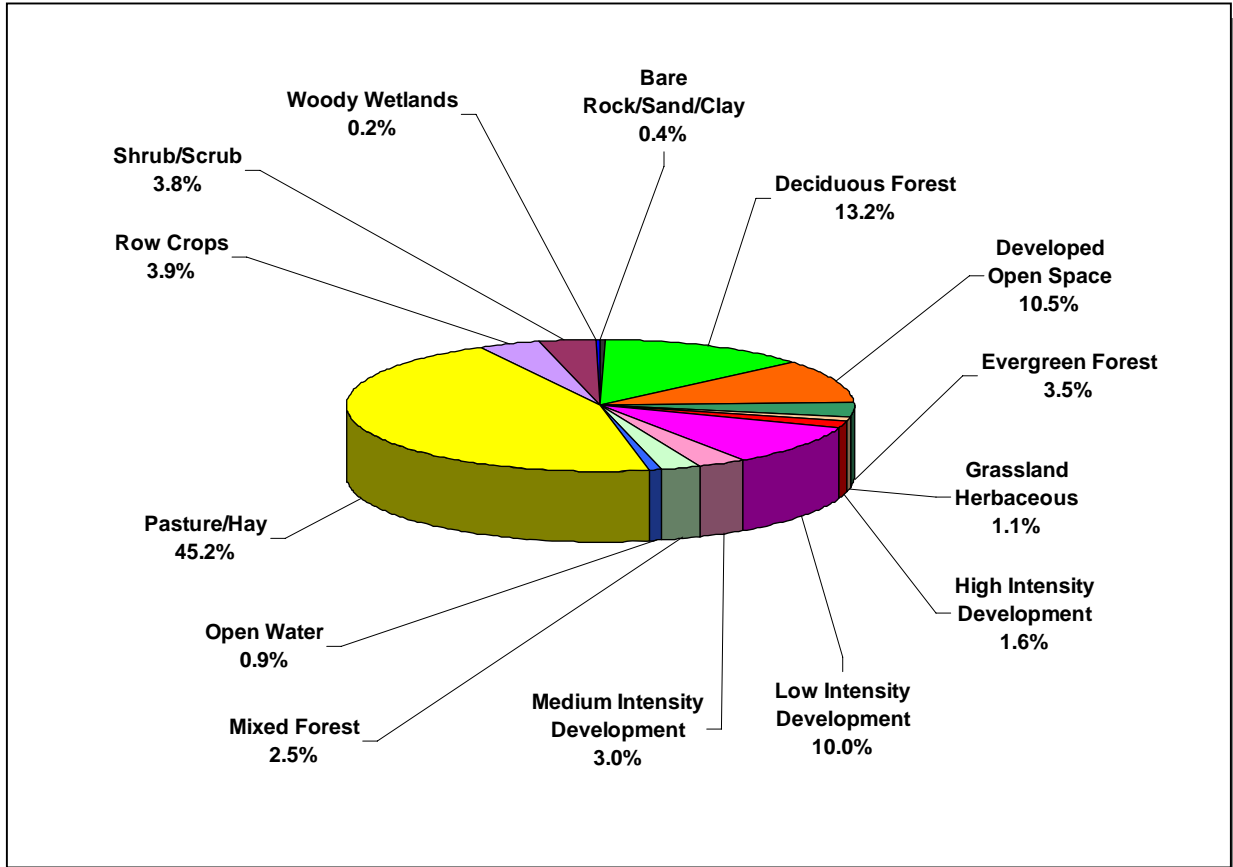


Figure 4-51. Land Use Distribution in Subwatershed 051302010107. More information is provided in Appendix IV.

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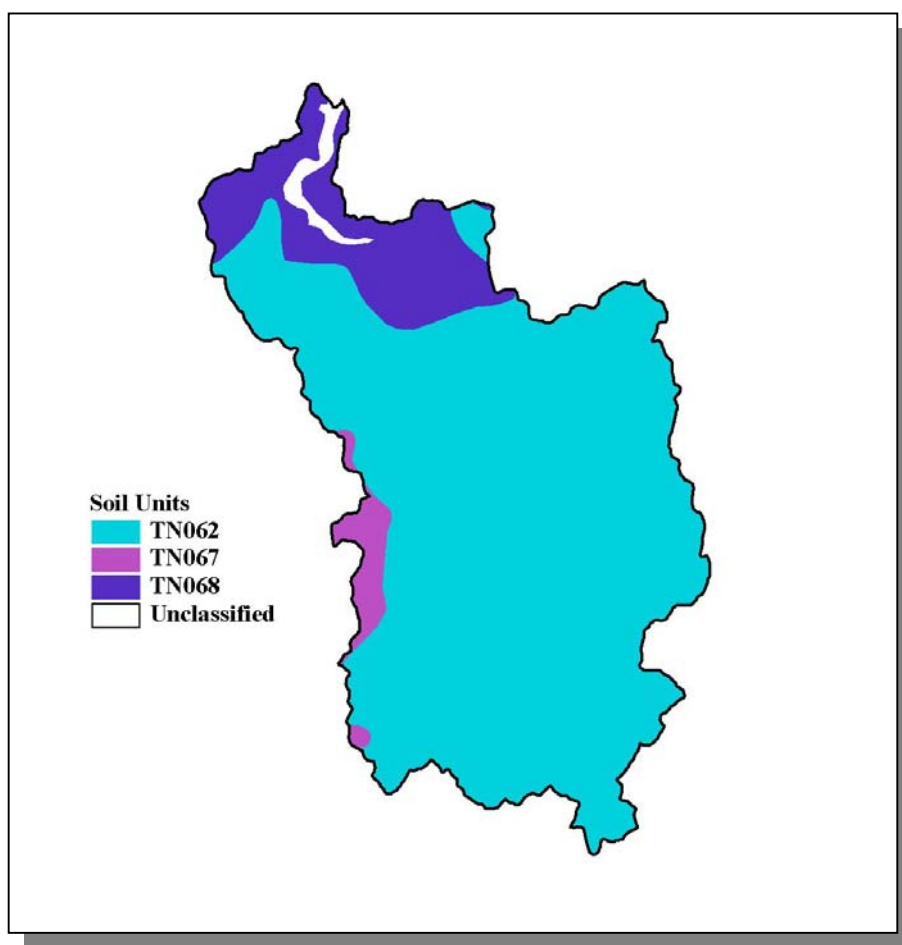


Figure 4-52. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302010107.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN062	0.00	C	0.98	4.40	Clayey Loam	0.26
TN067	2.00	C	2.69	5.51	Silty Loam	0.35
TN068	0.00	B	1.35	5.38	Silty Loam	0.37

Table 4-41. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302010107. The definition of “Hydrologic Group” is provided in Appendix IV.

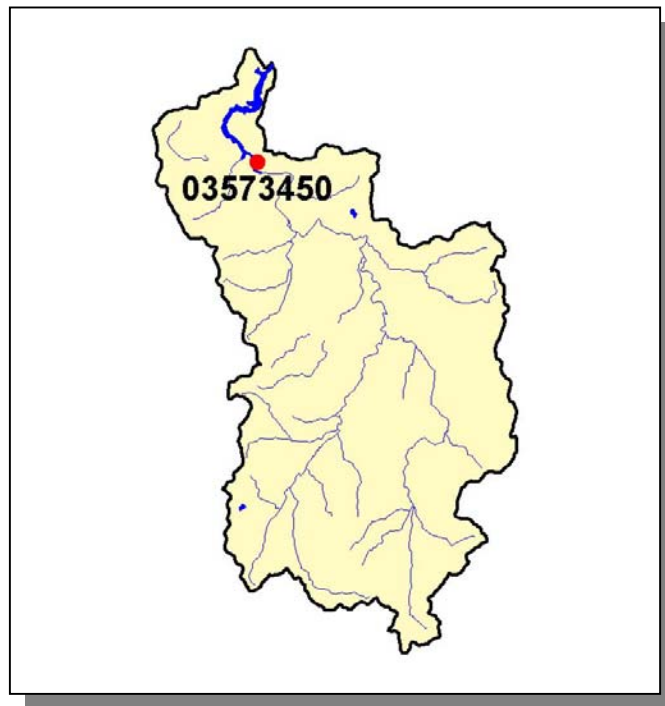


Figure 4-53. Location of Historical Streamflow Data Collection Sites in Subwatershed 051302010107. More information is provided in Appendix IV.

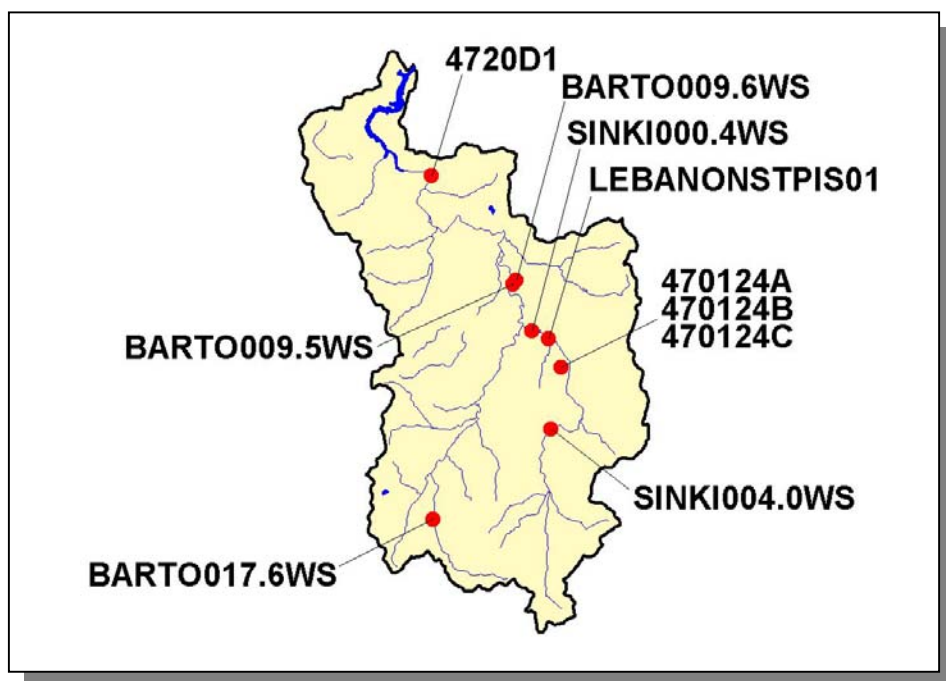


Figure 4-54. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302010107. More information, including site names and locations, is provided in Appendix IV.

4.2.A.vii.a. Point Source Contributions.

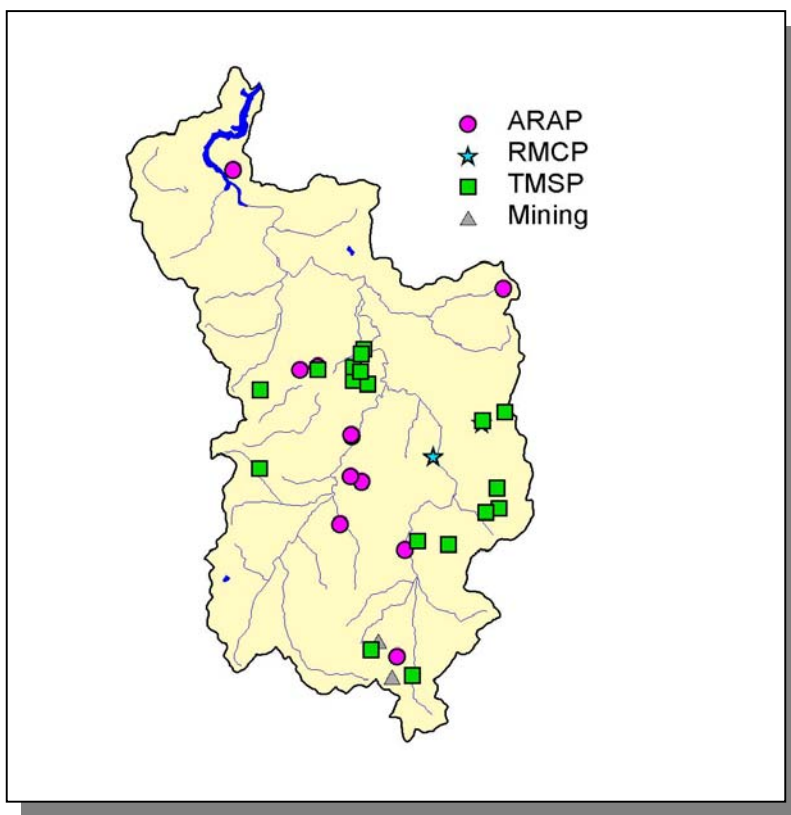


Figure 4-55. Location of Permits Issued in Subwatershed 051302010107. More information, including the names of facilities, is provided in Appendix IV.

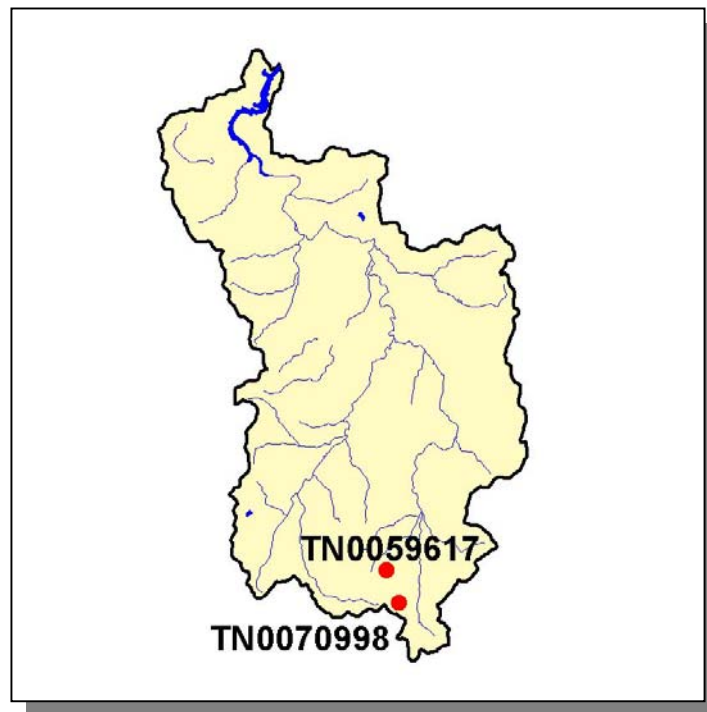


Figure 4-56. Location of Active Mining Sites in Subwatershed 051302010107. More information, including the names of mining operations, is provided in Appendix IV.

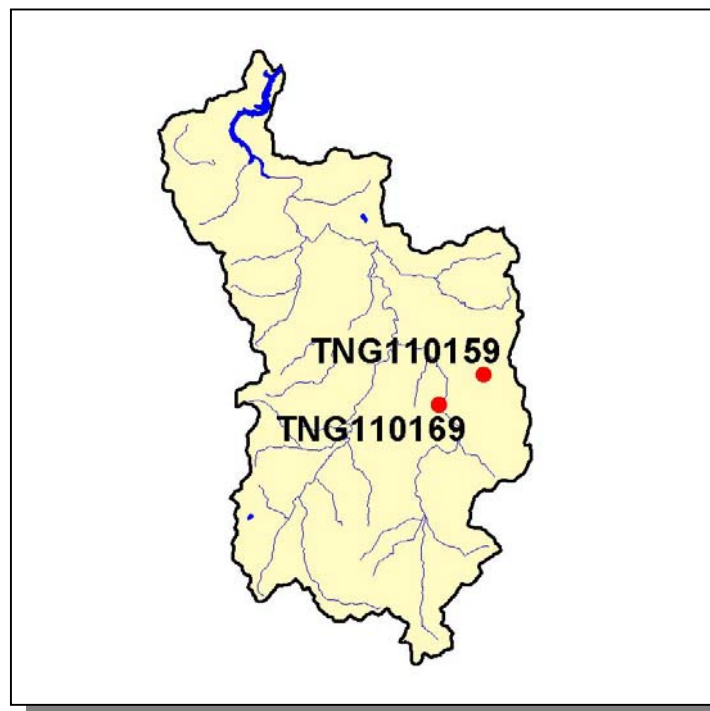


Figure 4-57. Location of Ready Mix Concrete Plants (RMCP) in Subwatershed 051302010107. More information, including the names of facilities, is provided in Appendix IV.

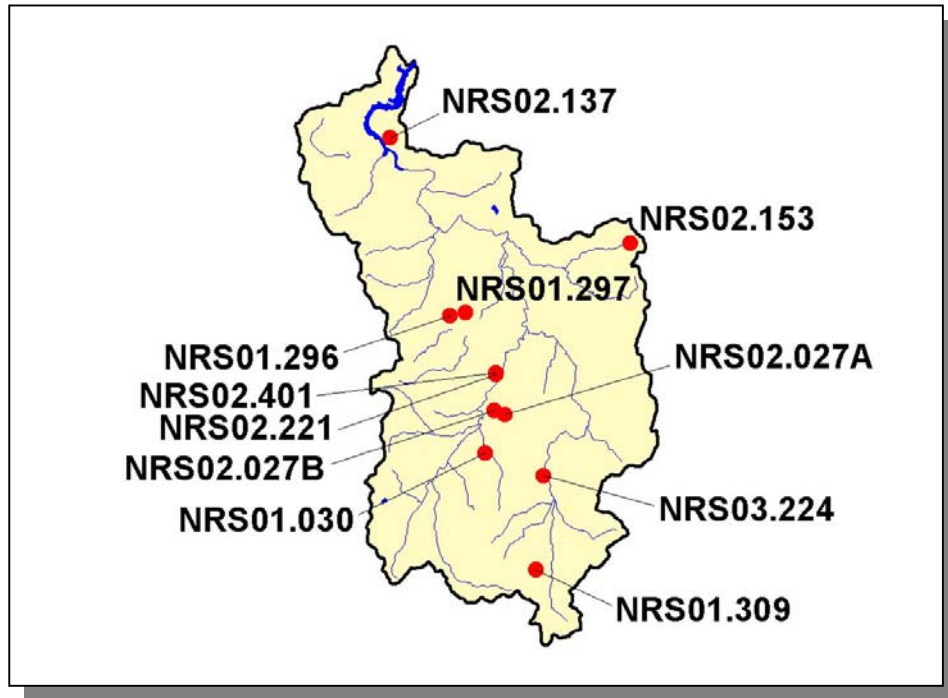


Figure 4-58. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 051302010107. More information is provided in Appendix IV.

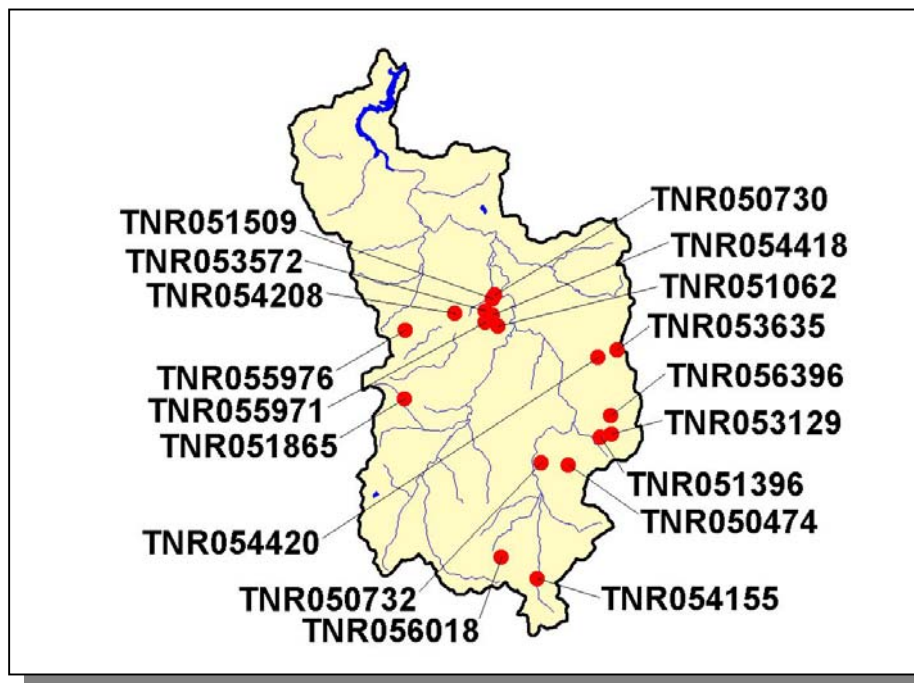


Figure 4-59. Location of TMSP Sites in Subwatershed 051302010107. More information, including the names of facilities, is provided in Appendix IV.

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4.2.A.vii.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
2,958	5,554	164	9	185	51

Table 4-42. Summary of Livestock Count Estimates in Subwatershed 051302010107. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Wilson	27,209	51,090	1,505	1,585	1,700	465

Table 4-43. Summary of Livestock Count Estimates in Wilson County. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Wilson	98.1	97.0	1.7	6.8

Table 4-44. Forest Acreage and Annual Removal Rates (1987-1994) in Wilson County.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.42
Grass (Hayland)	0.37
Legumes, Grass (Hayland)	0.38
Grass, Forbs, Legumes (Mixed Pasture)	0.91
Corn (Row Crops)	2.22
Soybeans (Row Crops)	6.72
Tobacco (Row Crops)	19.23
Wheat (Close-Grown Cropland)	1.96
All Other Close-Grown Cropland	2.49
Farmsteads and Ranch Headquarters	0.26

Table 4-45. Annual Estimated Total Soil Loss in Subwatershed 051302010107.